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Table 4
Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
1607	14353	27041	3.03	9.0E-48	AF223391.1	NT	Homo sapiens calcium channel alpha1E subunit (CACNA1E) gene, exons 7-49, and partial cds, alternatively spliced
3544	16298	28950	0.82	9.0E-48	BF359947.1	EST_HUMAN	CM2-MT0100-310700-290-405 MT0100 Homo sapiens cDNA
5594	18389	31298	0.86	9.0E-48	BE888196.1	EST_HUMAN	601511714F1 NIH_MGC_71 Homo sapiens cDNA clone IMAGE:3913106 5'
5594	18389	31300	0.86	9.0E-48	BE888196.1	EST_HUMAN	601511714F1 NIH_MGC_71 Homo sapiens cDNA clone IMAGE:3913106 5'
6010	18791	31754	0.66	9.0E-48	A1833168.1	EST_HUMAN	at75h09.x1 Barslead colon HPLRB7 Homo sapiens cDNA clone IMAGE:2377889 3' similar to TR:O60844
6131	18908	31877	0.64	9.0E-48	AU123240.1	EST_HUMAN	O60844 HOMOLOG OF RAT ZMOGEN GRANULE MEMBRANE PROTEIN. ;
11060	23730	37002	3.09	9.0E-48	BE393813.1	EST_HUMAN	AU123240 NT2RM1 Homo sapiens cDNA clone NT2RM1000978 5'
1228	13978		1.44	8.0E-48	4501900	NT	601310479F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3632083 5'
1228	13978		1.7	8.0E-48	4501900	NT	Homo sapiens aminocyclase 1 (ACY1), mRNA
3132	15897	28541	4.38	8.0E-48	AW768477.1	EST_HUMAN	Homo sapiens aminocyclase 1 (ACY1), mRNA
3132	15897	28542	4.38	8.0E-48	AW768477.1	EST_HUMAN	hK61B03.x1 NCI_CGAP_Lym12 Homo sapiens cDNA clone IMAGE:3001133 3' similar to gb:X64707
3911	16661	28302	0.78	8.0E-48	4504116	NT	BREAST BASIC CONSERVED PROTEIN 1 (HUMAN);
478	13264		1.27	7.0E-48	AB033035.1	NT	BREAST BASIC CONSERVED PROTEIN 1 (HUMAN);
478	13264		17.09	7.0E-48	AB033035.1	NT	Homo sapiens glutamate receptor, ionotropic, kainate 1 (GRIK1) mRNA
1483	14230	26916	0.98	7.0E-48	6912719	NT	Homo sapiens mRNA for KIAA1209 protein, partial cds
1634	14380	27067	3.89	7.0E-48	5730038	NT	Homo sapiens mRNA for KIAA1209 protein, partial cds
6460	19227	32227	27.21	7.0E-48	11416831	NT	Homo sapiens tousel-like kinase 1 (TLK1), mRNA
5967	18749	31710	0.91	6.0E-48	AB006855.1	NT	Homo sapiens SET domain and mariner transposase fusion gene (SETMAR) mRNA
6888	19805	32945	1.08	6.0E-48	11420995	NT	Homo sapiens histidyl-tRNA synthetase (HARS), mRNA
7365	25111	33123	0.58	6.0E-48	AB046844.1	NT	Homo sapiens mRNA for AIE-75, complete cds
7365	25111	33124	0.58	6.0E-48	AB046844.1	NT	Homo sapiens BMX non-receptor tyrosine kinase (BMX), mRNA
9022	21712	34858	2.07	6.0E-48	AF026816.1	NT	Homo sapiens mRNA for KIAA1624 protein, partial cds
9441	22118	35286	1.74	6.0E-48	11427428	NT	Homo sapiens putative oncogene protein mRNA, partial cds
8588	22241	35425	3.2	6.0E-48	AA189080.1	EST_HUMAN	Homo sapiens hypothetical protein FLJ11008 (FLJ11008), mRNA
3304	17878	28713	1.94	5.0E-48	4826891	NT	zq45b06.s1 Stratagene hNT neuron (#937233) Homo sapiens cDNA clone IMAGE:632827 3' similar to contains Alu repetitive element;
8474	21168	34310	1.25	5.0E-48	BE064410.1	EST_HUMAN	Homo sapiens phosphodiesterase 1A, calmodulin-dependent (PDE1A) mRNA
11603	24202	37524	1.39	5.0E-48	AW890289.1	EST_HUMAN	RC4-BT0311-141189-011-h06 BT0311 Homo sapiens cDNA
10878	23558	36805	3.96	4.0E-48	A1620420.1	EST_HUMAN	MRQ-NT0039-010500-002-008 NT0039 Homo sapiens cDNA
1364	14112	26786	1.27	3.0E-48	AV690964.1	EST_HUMAN	tu47a02.x1 NCI_CGAP_P128 Homo sapiens cDNA clone IMAGE:2254164 3'
							AV690964 GK0 Homo sapiens cDNA clone GKCDRE12 5'

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
1969	14705	27422	15.26	3.0E-48	4885170	NT	Homo sapiens chromosome X open reading frame 6 (CXORF6) mRNA
1969	14705	27423	15.26	3.0E-48	4885170	NT	Homo sapiens chromosome X open reading frame 6 (CXORF6) mRNA
3622	16375	29017	0.75	3.0E-48	AW664531.1	EST_HUMAN	h14b12 x1 NCI_CGAP_GU1 Homo sapiens cDNA clone IMAGE:2872255 3' similar to SW:DCRB_HUMAN
5804	18594	31519	2.47	3.0E-48	BE084571.1	EST_HUMAN	P56555 DOWN SYNDROME CRITICAL REGION PROTEIN B. ;
6919	19655	32701	0.94	3.0E-48	AF087913.1	NT	MR4-BT0657-060400-201-e10 BT0657 Homo sapiens cDNA
							Human endogenous retrovirus HERV-P-T47D
8290	20984		3.41	3.0E-48	AA659930.1	EST_HUMAN	nv03605.s1 NCI_CGAP_P122 Homo sapiens cDNA clone IMAGE:1219137 3' similar to contains PTR5.b1
10784	23467	36708	9.52	3.0E-48	BF514170.1	EST_HUMAN	PTR5 repetitive element ;
44	12873	25495	1.71	2.0E-48	AA631940.1	EST_HUMAN	UI-H-BW1-anti-a-10-U1.s1 NCI_CGAP_Sub7 Homo sapiens cDNA clone IMAGE:3082287 3'
1197	13949		5.15	2.0E-48	H24278.1	EST_HUMAN	fmf67 Regional genomic DNA specific cDNA library Homo sapiens cDNA clone CR17-26
4495	17231	29861	1.42	2.0E-48	BE248085.1	EST_HUMAN	ym55e10.r1 Soares infant brain 1NIB Homo sapiens cDNA clone IMAGE:52182 5' similar to
5724	18516	31436	0.61	2.0E-48	AA613171.1	EST_HUMAN	SP-M6B_MOUSE P35803 MEMBRANE GLYCOPROTEIN ;
5724	18516	31437	0.61	2.0E-48	AA613171.1	EST_HUMAN	TCBAP103842 Pediatric pre-B cell acute lymphoblastic leukemia Baylor-HGSC project-TCBA Homo
7419	20096	33182	4.77	2.0E-48	AB040934.1	NT	sapiens cDNA clone TCBAP3842
7419	20096	33183	4.77	2.0E-48	AB040934.1	NT	no18g01.s1 NCI_CGAP_Phe1 Homo sapiens cDNA clone IMAGE:1101072 3'
							no18g01.s1 NCI_CGAP_Phe1 Homo sapiens cDNA clone IMAGE:1101072 3'
							Homo sapiens mRNA for KIAA1501 protein, partial cds
							Homo sapiens mRNA for KIAA1501 protein, partial cds
7432	20109	33197	3.35	2.0E-48	11496238	NT	Homo sapiens v-rel avian reticuloblastosis viral oncogene homolog A (nuclear factor of kappa light
8253	20947	34084	1.33	2.0E-48	AV743451.1	EST_HUMAN	polypeptide gene enhancer in B-cells 3 (p65) (RELA), mRNA
12041	17888	30486	4.27	2.0E-48	AA465007.1	EST_HUMAN	AV743451 CB Homo sapiens cDNA clone CBCCGG10 5'
12367	25232	30820	1.86	2.0E-48	BE737154.1	EST_HUMAN	z680c03.r1 Soares ovary tumor N6HOT Homo sapiens cDNA clone IMAGE:810052 5'
12716	13949		1.34	2.0E-48	H24278.1	EST_HUMAN	601305084FT NIH_MGC_39 Homo sapiens cDNA clone IMAGE:3639782 5'
54	12883	25511	2.3	1.0E-48	7706534	NT	ym55e10.r1 Soares infant brain 1NIB Homo sapiens cDNA clone IMAGE:52182 5' similar to
853	13623	26293	17.13	1.0E-48	4502166	NT	SP-M6B_MOUSE P35803 MEMBRANE GLYCOPROTEIN ;
1273	14023	26891	3.77	1.0E-48	5032032	NT	Homo sapiens disphatin resistance-associated overexpressed protein (LOC51747), mRNA
1911	14648	27359	30.36	1.0E-48	AL163302.2	NT	Homo sapiens amyloid beta (A4) precursor protein (protease nexin-II, Alzheimer disease) (APP), mRNA
3481	16238	28894	0.96	1.0E-48	AL163246.2	NT	Homo sapiens RNA binding motif protein 6 (RBM6) mRNA
5061	17780	30398	1.6	1.0E-48	MT0976.1	NT	Homo sapiens chromosome 21 segment HS21C102
							Homo sapiens chromosome 21 segment HS21C046
							Human endogenous retroviral DNA (4-1), complete retroviral segment
6195	18971	31946	1.17	1.0E-48	AI899077.1	EST_HUMAN	td17c01.x1 NCI_CGAP_Co16 Homo sapiens cDNA clone IMAGE:2075804 3' similar to TR:O14588 O14588
							SIMILARITY TO U73941 ;

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6195	19871	31947	1.17	1.0E-48	AB89077.1	EST_HUMAN	td17c01.x1 NCL CGAP_Co16 Homo sapiens cDNA clone IMAGE:2075904 3' similar to TR:O14588 O14588
6407	19178		0.94	1.0E-48	Y18000.1	NT	SIMILARITY TO U73941 ;
6500	19265	32266	0.71	1.0E-48	AB028994.1	NT	Homo sapiens NF2 gene
6500	19265	32267	0.71	1.0E-48	AB028994.1	NT	Homo sapiens mRNA for KIAA1071 protein, partial cds
7157	19844	32813	2.52	1.0E-48	4755137	NT	Homo sapiens mRNA for KIAA1071 protein, partial cds
8730	21422	34566	0.76	1.0E-48	4758695	NT	Homo sapiens huntingtin (Huntington disease) (HD) mRNA
8730	21422	34567	0.76	1.0E-48	4758695	NT	Homo sapiens mitogen-activated protein kinase kinase kinase 13 (MAP3K13), mRNA
9113	21801	34968	0.84	1.0E-48	4502838	NT	Homo sapiens mitogen-activated protein kinase kinase kinase 13 (MAP3K13), mRNA
9168	21838	35004	6.4	1.0E-48	AB033071.1	NT	Homo sapiens Chediak-Higashi syndrome 1 (CHS1) mRNA
9481	22134	35314	5.33	1.0E-48	BF304683.1	EST_HUMAN	Homo sapiens mRNA for KIAA1245 protein, partial cds
10269	22917	36127	4.08	1.0E-48	11429808	NT	60188096FT NIH_MGC_17 Homo sapiens cDNA clone IMAGE:4122119 5'
10269	22917	36128	4.08	1.0E-48	11429808	NT	Homo sapiens B cell linker protein (SLP65), mRNA
2002	14737	27461	1.13	8.0E-49	AB026497.1	NT	Homo sapiens B cell linker protein (SLP65), mRNA
5962	18744	31705	3.43	8.0E-49	10048417	NT	Mus musculus MysPDZ mRNA for myosin containing PDZ domain, complete cds
5962	18744	31705	3.43	8.0E-49	10048417	NT	Mus musculus T-box 20 (Tbx20), mRNA
8194	20888	34026	3.17	8.0E-49	U23850.1	NT	Human inositol 1,4,5 trisphosphate receptor type 1 mRNA, partial cds
9889	22539	35733	1.15	8.0E-49	AB008681.1	NT	Homo sapiens gene for activin receptor type IIB, complete cds
135	13171	25814	1	7.0E-49	5729990	NT	Homo sapiens proteasome (prosome, macropain) 26S subunit, ATPase, 4 (PSMC4) mRNA
135	13171	25815	1	7.0E-49	5729990	NT	Homo sapiens proteasome (prosome, macropain) 26S subunit, ATPase, 4 (PSMC4) mRNA
384	13171	25814	1.73	7.0E-49	5729990	NT	Homo sapiens proteasome (prosome, macropain) 26S subunit, ATPase, 4 (PSMC4) mRNA
384	13171	25815	1.73	7.0E-49	5729990	NT	Homo sapiens proteasome (prosome, macropain) 26S subunit, ATPase, 4 (PSMC4) mRNA
385	13171	25814	2.94	7.0E-49	5729990	NT	Homo sapiens proteasome (prosome, macropain) 26S subunit, ATPase, 4 (PSMC4) mRNA
385	13171	25815	2.94	7.0E-49	5729990	NT	Homo sapiens proteasome (prosome, macropain) 26S subunit, ATPase, 4 (PSMC4) mRNA
1199	13951	26815	3.4	7.0E-49	AL163284.2	NT	Homo sapiens proteasome (prosome, macropain) 26S subunit, ATPase, 4 (PSMC4) mRNA
5373	18173	30862	2.11	7.0E-49	AB07191.1	EST_HUMAN	Homo sapiens chromosome 21 segment HS21C084
5383	18183	30873	1.46	7.0E-49	AL120937.1	EST_HUMAN	Wf25h04.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2356863 3' similar to TR:O54923
5716	18173	30862	0.67	7.0E-49	AB07191.1	EST_HUMAN	O54923 RSEC15 ;
192	13005	25846	12.12	6.0E-49	AW731740.1	EST_HUMAN	DKFZp762C033_s1 762 (synonym: hmel2) Homo sapiens cDNA clone DKFZp762C033 3'
4095	16837	29464	1.27	6.0E-49	AL162091.1	EST_HUMAN	Wf25h04.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2356863 3' similar to TR:O54923
							O54923 RSEC15 ;
							ba55g06.x1 NIH_MGC_10 Homo sapiens cDNA clone IMAGE:2900504 3' similar to gb:X17206 40S
							RIBOSOMAL PROTEIN S4 (HUMAN); gb:M20632 Mouse LLRep3 protein mRNA from a repetitive element, complete (MOUSE);
							DKFZp761A138_s1 761 (synonym: hamy2) Homo sapiens cDNA clone DKFZp761A138 3'

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6349	19119	32109	0.94	6.0E-49	AU140742.1	EST_HUMAN	AU140742 PLACE4 Homo sapiens cDNA clone PLACE4000148 5'
7314	19997	33076	0.69	6.0E-49	AW511225.1	EST_HUMAN	hd44602.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2912378 3' similar to TR:O95636
9833	22285	35478	0.45	6.0E-49	9910293	NT	O95638 CAMP-REGULATED GUANINE NUCLEOTIDE EXCHANGE FACTOR II.;
9833	22285	35479	0.45	6.0E-49	9910293	NT	Mus musculus keratin complex 2, gene 6g (Kt2-6g), mRNA
11248	23910	37202	2.5	6.0E-49	AW452218.1	EST_HUMAN	Mus musculus keratin complex 2, gene 6g (Kt2-6g), mRNA
11681	24257	37579	2.6	6.0E-49	AA366556.1	EST_HUMAN	U1-H-B13-alo-a-05-0-UI.s1 NCI_CGAP_Sub5 Homo sapiens cDNA clone IMAGE:3068048 3'
11681	24257	37580	2.6	6.0E-49	AA366556.1	EST_HUMAN	EST77525 Pancreas tumor III Homo sapiens cDNA 5' end
12362	25151	37579	2.03	6.0E-49	AA707567.1	EST_HUMAN	EST77525 Pancreas tumor III Homo sapiens cDNA 5' end
695	13470	26117	7	5.0E-49	AL163210.2	NT	z29c08.s1 Soares_fetal_liver_spleen_1NFLS_S1 Homo sapiens cDNA clone IMAGE:451694 3'
695	13470	26118	7	5.0E-49	AL163210.2	NT	Homo sapiens chromosome 21 segment HS21C010
1786	14527	27295	3.49	5.0E-49	AA172121.1	EST_HUMAN	Homo sapiens chromosome 21 segment HS21C010
2754	15459	28201	4.25	5.0E-49	U17714.1	NT	zp29c07.r1 Stratagene neuroepithelium (#937231) Homo sapiens cDNA clone IMAGE:610860 5' similar to TR:G233226 G233226 RTVL-H PROTEIN. ; contains LTR7 LTR7 LTR7 repetitive element ;
3267	18029	28678	2.64	5.0E-49	11436355	NT	Homo sapiens putative tumor suppressor ST13 (ST13) mRNA, complete cds
512	13296	25927	47.84	4.0E-49	AW189533.1	EST_HUMAN	Homo sapiens similar to ribosomal protein S27 (metalloproteinin 1) (H. sapiens) (LOC63362), mRNA
7172	19658	32930	0.95	4.0E-49	11525737	NT	x108b01.x1 NCI_CGAP_Ut4 Homo sapiens cDNA clone IMAGE:2675593 3' similar to WP:B0350.2B
7172	19658	32931	0.95	4.0E-49	11525737	NT	CE06709 ;
7710	20374	33488	0.9	4.0E-49	7662209	NT	Homo sapiens UDP-N-acetyl-alpha-D-galactosamine:polypeptide N-acetylgalactosaminyltransferase 8
8763	21455	34604	0.47	4.0E-49	11425374	NT	(GalNAc-T8)(GALNT8), mRNA
8763	21455	34605	0.47	4.0E-49	11425374	NT	Homo sapiens UDP-N-acetyl-alpha-D-galactosamine:polypeptide N-acetylgalactosaminyltransferase 8
12221	25368		4.21	4.0E-49	AA210798.1	EST_HUMAN	(GalNAc-T8)(GALNT8), mRNA
12306	24730		4.1	4.0E-49	AF240786.1	NT	Homo sapiens KIAA0623 gene product (KIAA0623), mRNA
547	13330	25961	1.73	3.0E-49	X68988.1	NT	Homo sapiens copine III (CPNE3), mRNA
2654	15364		1.9	3.0E-49	AA016131.1	EST_HUMAN	Homo sapiens copine III (CPNE3), mRNA
4923	17651	30264	2.33	3.0E-49	U46999.1	NT	Homo sapiens copine III (CPNE3), mRNA
7319	20002	33081	11.87	3.0E-49	H39479.1	EST_HUMAN	z80705.r1 NCI_CGAP_GCB1 Homo sapiens cDNA clone IMAGE:682977 5'
							Homo sapiens glutathione S-transferase theta 2 (GSTT2) and glutathione S-transferase theta 1 (GSTT1) genes, complete cds
							H. sapiens mRNA for acetyl-CoA carboxylase
							z831c05.r1 Soares retina N2b4HR Homo sapiens cDNA clone IMAGE:360584 5' similar to contains L1 L3 L1 repetitive element ;
							Human type IV collagen (COL4A6) gene, exon 40
							EST25e12 WATM1 Homo sapiens cDNA clone 25e12

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11272	23933	37226	1.98	3.0E-49	AA337661.1	EST_HUMAN	EST42572 Endometrial tumor Homo sapiens cDNA 5' end
646	13425		2.94	2.0E-49	BE165980.1	EST_HUMAN	MR3-IT0487-150200-113-g01 HT0487 Homo sapiens cDNA
3216	15979	28630	1.64	2.0E-49	N29448.1	EST_HUMAN	yx23d06.r1 Soares melanocyte 2NBHM Homo sapiens cDNA clone IMAGE:282571 5'
							oz88d02.x1 Soares senescent fibroblasts NbHSF Homo sapiens cDNA clone IMAGE:1682403 3' similar to gb:M31470 RAS-LIKE PROTEIN TC10 (HUMAN); contains Alu repetitive element; contains element MER22 repetitive element;
4746	17478	30110	0.68	2.0E-49	AI187357.1	EST_HUMAN	EST42572 Endometrial tumor Homo sapiens cDNA clone IMAGE:3088538 3'
4758	17490	30118	0.74	2.0E-49	BF511848.1	EST_HUMAN	UI-H-B14-eps-d-02-0-UI s1 NCI_CGAP_Sub8 Homo sapiens cDNA clone IMAGE:3088538 3'
6637	19399	32414	1.17	2.0E-49	AV717938.1	EST_HUMAN	AV717938 DCB Homo sapiens cDNA clone DCBALB01 5'
7998	20593		1.74	2.0E-49	M86033.1	EST_HUMAN	EST02558 Fetal brain, Stratiogene (cat#36206) Homo sapiens cDNA clone HFBGY50
12316	25250		2.07	2.0E-49	AF163864.1	NT	Homo sapiens SNCA isoform (SNCA) gene, complete cds, alternatively spliced
879	13648		5	1.0E-49	BF035327.1	EST_HUMAN	601458531F1 NIH_MGC_66 Homo sapiens cDNA clone IMAGE:3862086 5'
1546	14292	26978	1.11	1.0E-49	4557887	NT	Homo sapiens keratin 18 (KRT18) mRNA
1794	14534	27243	4.82	1.0E-49	BE255216.1	EST_HUMAN	601115769F1 NIH_MGC_16 Homo sapiens cDNA clone IMAGE:3356273 5'
5275	18090	30737	6.82	1.0E-49	BF131007.1	EST_HUMAN	601820053F1 NIH_MGC_58 Homo sapiens cDNA clone IMAGE:4052082 5'
5986	18767	31731	0.98	1.0E-49	H18291.1	EST_HUMAN	yt48h04.r1 Soares adult brain N2b5H855Y Homo sapiens cDNA clone IMAGE:171703 5' similar to SP:GBG1_HUMAN Q08447 GUANINE NUCLEOTIDE-BINDING PROTEIN G(T) GAMMA-1 SUBUNIT;
5992	18773	31736	5.55	1.0E-49	AW964640.1	EST_HUMAN	EST376713 MAGE resequences, MAGH Homo sapiens cDNA
7117	19805	32869	0.62	1.0E-49	AV703000.1	EST_HUMAN	AV703000 ADB Homo sapiens cDNA clone ADBCV11 5'
7117	19805	32870	0.62	1.0E-49	AV703000.1	EST_HUMAN	AV703000 ADB Homo sapiens cDNA clone ADBCV11 5'
7123	19811	32878	3.55	1.0E-49	BE398110.1	EST_HUMAN	601290330F1 NIH_MGC_8 Homo sapiens cDNA clone IMAGE:3620863 5'
7123	19811	32879	3.55	1.0E-49	BE398110.1	EST_HUMAN	601290330F1 NIH_MGC_8 Homo sapiens cDNA clone IMAGE:3620863 5'
							yw78g12.s1 Soares placenta, 8tc9weeks, 2NbHP8tc9W Homo sapiens cDNA clone IMAGE:258406 3'
7200	19886	32960	2.21	1.0E-49	N25884.1	EST_HUMAN	similar to gb:X65873 KINESIN HEAVY CHAIN (HUMAN);
							yw78g12.s1 Soares placenta, 8tc9weeks, 2NbHP8tc9W Homo sapiens cDNA clone IMAGE:258406 3'
7200	19886	32961	2.21	1.0E-49	N25884.1	EST_HUMAN	similar to gb:X65873 KINESIN HEAVY CHAIN (HUMAN);
7977	20672	33795	0.69	1.0E-49	11321580	NT	Homo sapiens succinate-CoA ligase, GDP-forming, alpha subunit (SUCLG1), mRNA
7977	20672	33796	0.69	1.0E-49	11321580	NT	Homo sapiens succinate-CoA ligase, GDP-forming, alpha subunit (SUCLG1), mRNA
8575	21267		0.66	1.0E-49	9994184	NT	Homo sapiens RNA binding motif protein 7 (LOC51120), mRNA
8891	21582	34721	1.29	1.0E-49	BE409340.1	EST_HUMAN	601300392F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3635398 5'
10026	22674	35889	1.58	1.0E-49	AL043129.2	EST_HUMAN	DKFZp434D2423_j1 434 (synonym: htes3) Homo sapiens cDNA clone DKFZp434D2423 5'
10979	23654	36907	1.43	1.0E-49	AV751477.1	EST_HUMAN	AV751477 NPD Homo sapiens cDNA clone NPDAWE04 5'
11281	23942	37236	3.32	1.0E-49		NT	Homo sapiens trefaldin A-inhibited guanine nucleotide-exchange protein 1 (BIG1), mRNA
12215	24677		2.46	1.0E-49	11418322	NT	Homo sapiens cadherin EGF LAG seven-pass G-type receptor 1 (CELSR1), mRNA
4937	17665		1.4	9.0E-50	AF101475.1	NT	Homo sapiens glycine N-methyltransferase (GNMT) gene, complete cds

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Table 4
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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
6310	25421		0.95	9.0E-50	BE295758.1	EST_HUMAN	601176250F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:3531588 5'
166	12980	25619	4.05	8.0E-50	AL163202.2	NT	Homo sapiens chromosome 21 segment HS21C002
702	13477	26125	2.54	8.0E-50	X95097.2	NT	Homo sapiens mRNA for VIP receptor 2
702	13477	26126	2.54	8.0E-50	X95097.2	NT	Homo sapiens mRNA for VIP receptor 2
1758	14500	27201	2.82	8.0E-50	4501890	NT	Homo sapiens actinin, alpha 1 (ACTN1) mRNA
2703	15410	28147	1.48	8.0E-50	4826658	NT	Homo sapiens capping protein (actin filament) muscle Z-line, beta (CAPZB), mRNA
2833	14691		15.7	8.0E-50	D90334.1	NT	Homo sapiens hepatocyte growth factor (HGF) gene, exon 18
11385	23992	37293	1.29	8.0E-50	AA633467.1	EST_HUMAN	np62d06.s1 NCI_CGAP_Br2 Homo sapiens cDNA clone IMAGE:1130891 3' similar to gb:J05459
805	13383	26015	0.78	7.0E-50	BE089591.1	EST_HUMAN	GLUTATHIONE S-TRANSFERASE TESTIS/BRAIN (HUMAN);
6887	19604	32643	1.06	7.0E-50	BF091922.1	EST_HUMAN	QV0-BT0703-280400-211-e08 BT0703 Homo sapiens cDNA
6887	19604	32644	1.06	7.0E-50	BF091922.1	EST_HUMAN	RC6-TN0073-150900-011-A12 TN0073 Homo sapiens cDNA
7205	19890	32866	0.6	7.0E-50	AA627822.1	EST_HUMAN	RC6-TN0073-150900-011-A12 TN0073 Homo sapiens cDNA
10856	23347	36584	7.65	7.0E-50	A1872137.1	EST_HUMAN	nc59e12.s1 NCI_CGAP_C9 Homo sapiens cDNA clone IMAGE:1148206 3' similar to gb:X69391 60S
4309	17048		0.68	6.0E-50	BE794381.1	EST_HUMAN	RIBOSOMAL PROTEIN L6 (HUMAN);
8112	20806		5.67	6.0E-50	BE044076.1	EST_HUMAN	wm55g11.x1 NCI_CGAP_U12 Homo sapiens cDNA clone IMAGE:2439508 3'
10717	23406	36646	12.6	6.0E-50	AA312079.1	EST_HUMAN	601168965F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3943577 5'
10717	23406	36647	12.6	6.0E-50	AA312079.1	EST_HUMAN	ho38h04.x1 NCI_CGAP_U11 Homo sapiens cDNA clone IMAGE:3039511 3' similar to contains MER29.b3
1785	14526	27233	1.1	5.0E-50	BF332938.1	EST_HUMAN	EST182775 Jurkat T-cells VI Homo sapiens cDNA 5' end
1785	14526	27234	1.1	5.0E-50	BF332938.1	EST_HUMAN	EST182775 Jurkat T-cells VI Homo sapiens cDNA 5' end
8990	21680		5.28	5.0E-50	AA557683.1	EST_HUMAN	CM0-BT0792-300500-398-b05 BT0792 Homo sapiens cDNA
897	13685		1.71	4.0E-50	AA601143.1	EST_HUMAN	CM0-BT0792-300500-398-b05 BT0792 Homo sapiens cDNA
3441	16197	28847	0.99	4.0E-50	AL163248.2	NT	nl45h10.s1 NCI_CGAP_P14 Homo sapiens cDNA clone IMAGE:1043663 similar to contains PTR5.13 PTR5
6298	19041	32018	0.98	4.0E-50	11440683	NT	repetitive element:
7135	19822	32888	1.95	4.0E-50	BE087536.1	EST_HUMAN	repetitive element:
1831	14667		4.13	3.0E-50	M18048.1	NT	nc54e09.s1 NCI_CGAP_SS1 Homo sapiens cDNA clone IMAGE:1104520 3' similar to gb:X63741_ma1
3293	16054	28703	1.24	3.0E-50	AA746142.1	EST_HUMAN	FIBULIN-1, ISOFORM A PRECURSOR (HUMAN);
3734	16487	29124	1.14	3.0E-50	AW755254.1	EST_HUMAN	Homo sapiens chromosome 21 segment HS21C048
							Homo sapiens cysteinyl-tRNA synthetase (CARS), mRNA
							QV1-BT0681-280300-127-f12 BT0681 Homo sapiens cDNA
							Human endogenous retrovirus RTVL-H2
							cd03006.s1 NCI_CGAP_Kid3 Homo sapiens cDNA clone IMAGE:1322627 3'
							CMYA5 Human cardiac muscle expression library Homo sapiens cDNA clone 4151935 similar to CMYA5
							Cardiomyopathy associated gene 5

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Table 4
Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
6667	19584	32618	1.52	3.0E-50	11421614	NT	Homo sapiens similar to serine domain, immunoglobulin domain (Ig), short basic domain, secreted, (semaphorin) 3A (H. sapiens) (LOC63232), mRNA
7544	20214	33314	4.85	3.0E-50	AF233436.2	NT	Homo sapiens FYVE domain-containing dual specificity protein phosphatase FYVE-DSP1a mRNA, complete cds
7544	20214	33315	4.85	3.0E-50	AF233436.2	NT	Homo sapiens FYVE domain-containing dual specificity protein phosphatase FYVE-DSP1a mRNA, complete cds
8481	21173	34318	0.71	3.0E-50	6601589	NT	Homo sapiens ankyrin-like with transmembrane domains 1 (ANKTM1), mRNA
9718	22369	35567	1.21	3.0E-50	AB046818.1	NT	Homo sapiens mRNA for KIAA1598 protein, partial cds
9727	22378	35580	0.99	3.0E-50	11418514	NT	Homo sapiens t-complex 10 (a murine top homolog) (TOP10), mRNA
10077	22725	35942	0.47	3.0E-50	Y18276.1	NT	Mus musculus mRNA for neurobeachin
10415	23061	36280	1.03	3.0E-50	AB002297.1	NT	Human mRNA for KIAA0299 gene, partial cds
11045	23715	36984	1.61	3.0E-50	11436955	NT	Homo sapiens Grib2-associated binder 2 (KIAA0571), mRNA
11441	23208	36439	5.35	3.0E-50	AJ245621.1	NT	Homo sapiens CTL2 gene
760	13632	26476	5.38	2.0E-50	AF056066.1	NT	Homo sapiens MHC class I region
1057	13815	26478	5.57	2.0E-50	4557752	NT	Homo sapiens midline 1 (Opitz/BBB syndrome) (MID1) mRNA
1424	14171	26857	2.25	2.0E-50	AF138303.1	NT	Homo sapiens decarin D mRNA, complete cds, alternatively spliced
6769	19513	32639	0.59	2.0E-50	AU124065.1	EST_HUMAN	AU124065 NT2RM2 Homo sapiens cDNA clone NT2RM2001609 5'
8215	20909	34044	1.02	2.0E-50	AB038162.1	NT	Homo sapiens TFF gene cluster for trefoil factor, complete cds
8215	20909	34045	1.02	2.0E-50	AB038162.1	NT	Homo sapiens TFF gene cluster for trefoil factor, complete cds
8355	21048	34186	10.04	2.0E-50	X06986.1	NT	Human HALPHA44 gene for alpha-tubulin, exons 1-3
8355	21048	34187	10.04	2.0E-50	X06986.1	NT	Human HALPHA44 gene for alpha-tubulin, exons 1-3
9784	22435	35641	1.51	2.0E-50	9910293	NT	Mus musculus keratin complex 2, gene 6g (Krt2-6g), mRNA
9784	22435	35642	1.51	2.0E-50	9910293	NT	Mus musculus keratin complex 2, gene 6g (Krt2-6g), mRNA
11660	24256	25874	1.8	2.0E-50	AF023661.1	NT	Macaca mulatta cyclophilin A mRNA, complete cds
449	13235	25874	1.92	1.0E-50	AL163209.2	NT	Homo sapiens chromosome 21 segment HS21 C009
2365	15087	35956	0.48	1.0E-50	AJ271735.1	NT	Homo sapiens Xq pseudautosomal region; segment 1/2
10093	22741	35956	1.57	1.0E-50	D111078.1	NT	Homo sapiens RGH2 gene, retrovirus-like element
5953	18678	31624	1.21	9.0E-51	AW511225.1	EST_HUMAN	hd44e02.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2912378 3' similar to TR:O86636
6130	18908	31876	0.71	9.0E-51	AA744837.1	EST_HUMAN	O95636 CAMP-REGULATED GUANINE NUCLEOTIDE EXCHANGE FACTOR II.;
8572	21264	34403	0.65	9.0E-51	A1791154.1	EST_HUMAN	ny67n03.s1 NCL_OGAP_GCB1 Homo sapiens cDNA clone IMAGE:1283381 3'
9224	21903	35075	1.23	9.0E-51	AA043738.1	EST_HUMAN	ab23g04.x5 Stratiogene lung (#937210) Homo sapiens cDNA clone IMAGE:841888 3' similar to SW:PSM_HUMAN_Q04609 PROSTATE-SPECIFIC MEMBRANE ANTIGEN;

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
9400	22062	35231	0.66	9.0E-51	A1791154.1	EST_HUMAN	ab23g04.x5 Stratagene lung (#637210) Homo sapiens cDNA clone IMAGE:841886 3' similar to SW:PSM_HUMAN Q04609 PROSTATE-SPECIFIC MEMBRANE ANTIGEN ;
9400	22062	35232	0.66	9.0E-51	A1791154.1	EST_HUMAN	ab23g04.x5 Stratagene lung (#637210) Homo sapiens cDNA clone IMAGE:841886 3' similar to SW:PSM_HUMAN Q04609 PROSTATE-SPECIFIC MEMBRANE ANTIGEN ;
11455	23222	36456	1.89	9.0E-51	H89078.1	EST_HUMAN	yw24g06.r1 Morton Fetal Cochlea Homo sapiens cDNA clone IMAGE:253210 5'
11455	23222	36457	1.89	9.0E-51	H89078.1	EST_HUMAN	yw24g06.r1 Morton Fetal Cochlea Homo sapiens cDNA clone IMAGE:253210 5'
11823	18908	31876	1.43	9.0E-51	AA744837.1	EST_HUMAN	Homo sapiens glycine amidinotransferase (L-arginine:glycine amidinotransferase) (GATM) mRNA
4405	17142	29770	1.45	8.0E-51	4503932	NT	Homo sapiens glycine amidinotransferase (L-arginine:glycine amidinotransferase) (GATM) mRNA
4405	17142	29771	1.45	8.0E-51	4503932	NT	Homo sapiens glycine amidinotransferase (L-arginine:glycine amidinotransferase) (GATM) mRNA
4530	17265	29998	8.43	8.0E-51	AA610842.1	EST_HUMAN	np98e09.s1 NCI_CGAP_Lu1 Homo sapiens cDNA clone IMAGE:1142440 3' similar to gb:X12671_ma1
7552	20222	33325	2.24	8.0E-51	11439587	NT	HETEROGENEOUS NUCLEAR RIBONUCLEOPROTEIN A1 (HUMAN);
5984	21939		1.13	8.0E-51	AU138560.1	EST_HUMAN	Homo sapiens PDZ-73 protein (PDZ-73/NTY-CO-38) mRNA
11812	20222	33325	2.02	8.0E-51	11439587	NT	Homo sapiens PDZ-73 protein (PDZ-73/NTY-CO-38) mRNA
3015	15781	28430	0.9	7.0E-51	AW274720.1	EST_HUMAN	Q9Z340 A TYPICAL PKC SPECIFIC BINDING PROTEIN ;
3278	16037	28887	1.45	7.0E-51	AW889219.1	EST_HUMAN	QV4-NT0028-200400-180-305 NT0028 Homo sapiens cDNA
4146	18988	29519	1.37	7.0E-51	AL079628.1	EST_HUMAN	DKFZp434B2229_r1 434 (synonym: hies3) Homo sapiens cDNA clone DKFZp434B2229 5'
4146	18988	29520	1.37	7.0E-51	AL079628.1	EST_HUMAN	DKFZp434B2229_r1 434 (synonym: hies3) Homo sapiens cDNA clone DKFZp434B2229 5'
4318	17057	26881	2.71	7.0E-51	AW285603.1	EST_HUMAN	U1-H-BW0-slp-b-05-0-U1.s1 NCI_CGAP_Sub6 Homo sapiens cDNA clone IMAGE:2729817 3'
11686	24281	37603	1.34	7.0E-51	AF161449.1	NT	Homo sapiens HSPC331 mRNA, partial cds
1972	14708	27426	4.96	6.0E-51	7667266	NT	Homo sapiens KIAA0929 protein Mx2 interacting nuclear target (MINT) homolog (KIAA0929), mRNA
3466	16222	28876	14.73	6.0E-51	7667266	NT	Homo sapiens KIAA0929 protein Mx2 interacting nuclear target (MINT) homolog (KIAA0929), mRNA
5601	18686	31634	1.56	6.0E-51	X01788.1	NT	Human haptoglobin related (Hpr) gene exon 3
5912	18686	31648	9.95	6.0E-51	AF070083.1	NT	Homo sapiens mitogen-activated protein kinase kinase 1 (MKK4) gene, exon 4
5912	18696	31649	9.95	6.0E-51	AF070083.1	NT	Homo sapiens mitogen-activated protein kinase kinase 1 (MKK4) gene, exon 4
5663	19580	32615	1.02	6.0E-51	4506736	NT	Homo sapiens ribosomal protein S6 kinase, 70kD, polypeptide 1 (RPS6KB1) mRNA
6792	19536	32564	0.97	6.0E-51	11416751	NT	Homo sapiens non-kinase Cdc42 effector protein SPEC2 (LOC556990) mRNA
6868	17945	30540	2.2	6.0E-51	11428525	NT	Homo sapiens cerebral cell adhesion molecule (LOC51149), mRNA
9035	21725	34878	0.68	6.0E-51	11428525	NT	Homo sapiens hypothetical protein FLJ11042 (FLJ11042), mRNA
9035	21725	34879	0.68	6.0E-51	11428525	NT	Homo sapiens hypothetical protein FLJ11042 (FLJ11042), mRNA
9582	22235	35419	2.18	6.0E-51	7661535	NT	Homo sapiens B9 protein (B9), mRNA

Table 4

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
9662	22314	35511	0.87	6.0E-51	U50093.1	NT	Human ankyrin (ANK1) gene, exon 2
11221	23884	37169	1.51	6.0E-51	11526289	NT	Homo sapiens interleukin 17 receptor (IL17R), mRNA
11515	24115	37425	1.52	6.0E-51	5453949	NT	Homo sapiens protein phosphatase 2, regulatory subunit B (B56), alpha isoform (PPP2R5A) mRNA
11515	24115	37426	1.52	6.0E-51	5453949	NT	Homo sapiens protein phosphatase 2, regulatory subunit B (B56), alpha isoform (PPP2R5A) mRNA
774	13546	26207	11.81	5.0E-51	AL163203.2	NT	Homo sapiens chromosome 21 segment HS21C003
765	13557	26219	1.98	5.0E-51	4507500	NT	Homo sapiens T-cell lymphoma invasion and metastasis 1 (TIAM1) mRNA
970	15557	26400	0.95	5.0E-51	AL133204.1	NT	Novel human gene mapping to chromosome X
1803	14349	27038	0.99	5.0E-51	5031980	NT	Homo sapiens 26S proteasome-associated pad1 homolog (POH1) mRNA
2601	15315	28052	8.67	5.0E-51	AJ007558.1	NT	Homo sapiens mRNA for nucleoporin 155
3925	16875	28316	1.52	5.0E-51	M30938.1	NT	Human Ku (p70/p80) subunit mRNA, complete cds
3925	16875	28317	1.52	5.0E-51	M30938.1	NT	Human Ku (p70/p80) subunit mRNA, complete cds
11249	23911	37203	4.18	5.0E-51	5803136	NT	Homo sapiens RNA binding motif protein 3 (RBM3), mRNA
1163	13908	26571	3.65	3.0E-51	AI587348.1	EST_HUMAN	tr81c09.x1 NCL CGAP_Pan1 Homo sapiens cDNA clone IMAGE:2224720 3' similar to gb:M28326
4282	17031	29659	1.97	3.0E-51	AL159142.1	NT	KERATIN, TYPE I CYTOSKELETAL 18 (HUMAN); Novel human gene mapping to chromosome 22
7479	20152	33246	3	3.0E-51	R15914.1	EST_HUMAN	y847c08.r1 Scores infant brain 1N1B Homo sapiens cDNA clone IMAGE:53233 5' similar to gb:M14123_cds4 RETROVIRUS-RELATED POL POLYPROTEIN (HUMAN); contains LTR repetitive element;
8738	21430		4.68	3.0E-51	M28063.1	NT	Human hnRNP C2 protein mRNA
8966	25430		0.47	3.0E-51	AW56377.1	EST_HUMAN	ia04406.y1 Human Pancreatic Islets Homo sapiens cDNA 5'
357	13155	25796	2.01	2.0E-51	4507798	NT	Homo sapiens ubiquitin protein ligase E3A (human papilloma virus E6-associated protein, Angelman syndrome) (UBE3A) mRNA
1863	14427	27124	5.16	2.0E-51	AA233352.1	EST_HUMAN	z730a05.r1 Stratagene NT2 neuronal precursor 837230 Homo sapiens cDNA clone IMAGE:684880 5' similar
3718	18489	29107	1.57	2.0E-51	AI492415.1	EST_HUMAN	to TR:G233226 G233226 RTVL-H PROTEIN ; contains LTR7.3 LTR7 repetitive element ;
4458	17194	29820	0.76	2.0E-51	AW137828.1	EST_HUMAN	is27903.x1 NCL CGAP_Kid11 Homo sapiens cDNA clone IMAGE:2131732 3'
5352	18155	30837	0.7	2.0E-51	A1732851.1	EST_HUMAN	UI-H-B11-adj-d-02-Q-UI.s1 NCL CGAP_Sub3 Homo sapiens cDNA clone IMAGE:2716851 3'
5352	18155	30838	0.7	2.0E-51	A1732851.1	EST_HUMAN	ob34f09.x5 NCL CGAP_Kid5 Homo sapiens cDNA clone IMAGE:1325609 3' similar to SW:NME1_MOUSE
5925	18709	31663	3.68	2.0E-51	BE782015.1	EST_HUMAN	P35436 GLUTAMATE [NMDA] RECEPTOR SUBUNIT EPSILON 1 PRECURSOR ;
7209	19894		0.61	2.0E-51	AF219927.1	NT	ob34f09.x5 NCL CGAP_Kid5 Homo sapiens cDNA clone IMAGE:1325609 3' similar to SW:NME1_MOUSE P35436 GLUTAMATE [NMDA] RECEPTOR SUBUNIT EPSILON 1 PRECURSOR ; 601470446F1 NIH_MGC_57 Homo sapiens cDNA clone IMAGE:3873563 5'
							Homo sapiens diacylglycerol kinase Iota (DGKI) gene, exon 23

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
7357	20038	33116	1.06	2.0E-51	7662349	NT	Homo sapiens cell recognition molecule Casp12 (KIA00898), mRNA
8599	21291	34432	1.72	2.0E-51	BE901994.1	EST_HUMAN	601676787F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3959613 5'
8599	21291	34433	1.72	2.0E-51	BE901994.1	EST_HUMAN	601676787F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3959613 5'
8932	21623	34766	0.96	2.0E-51	11037064	NT	Homo sapiens disrupted in schizophrenia 1 (DISC1), mRNA
9412	22090	35261	1.45	2.0E-51	AI917078.1	EST_HUMAN	ts74d07.x1 NCI_CGAP_GC8 Homo sapiens cDNA clone IMAGE:2236980 3' similar to SW:TRKC_HUMAN
9503	22156	35336	5.68	2.0E-51	BE165980.1	EST_HUMAN	Q16288 NT-3 GROWTH FACTOR RECEPTOR PRECURSOR ;
9519	22172	35355	0.6	2.0E-51	AB007926.1	NT	MR3-HT0487-150200-113-g01 HT0487 Homo sapiens cDNA
10332	22979	39199	1.77	2.0E-51	AV682474.1	EST_HUMAN	Homo sapiens mRNA for KIAA0457 protein, partial cds
10370	23016	36232	2.67	2.0E-51	AA378559.1	EST_HUMAN	AV682474 GKB Homo sapiens cDNA clone GKBAGF05 5'
11298	18155	30837	8.52	2.0E-51	AI732851.1	EST_HUMAN	EST91296 Synovial sarcoma Homo sapiens cDNA 5' end
11298	18155	30838	8.52	2.0E-51	AI732851.1	EST_HUMAN	6b3409.x8 NCI_CGAP_Kid5 Homo sapiens cDNA clone IMAGE:1325609 3' similar to SW:NME1_MOUSE
12523	24870	31017	2.1	2.0E-51	11419159	NT	P35436 GLUTAMATE [NMDA] RECEPTOR SUBUNIT EPSILON 1 PRECURSOR ;
112	12934	25571	5.74	1.0E-51	4503528	NT	6b3409.x8 NCI_CGAP_Kid5 Homo sapiens cDNA clone IMAGE:1325609 3' similar to SW:NME1_MOUSE
1479	14226		20.32	1.0E-51	AV742248.1	EST_HUMAN	P35436 GLUTAMATE [NMDA] RECEPTOR SUBUNIT EPSILON 1 PRECURSOR ;
4959	17684	30294	1.52	1.0E-51	BE779039.1	EST_HUMAN	Homo sapiens myeloid/lymphoid or mixed-lineage leukemia (trithorax (Drosophila) homolog); translocated to, 4 (MLLT4), mRNA
5305	18110	30769	4.1	1.0E-51	T18862.1	EST_HUMAN	Homo sapiens eukaryotic translation initiation factor 4A, isoform 1 (EIF4A1) mRNA
7549	20219	33322	0.94	1.0E-51	AI572532.1	EST_HUMAN	AV742248 CB Homo sapiens cDNA clone CBFBC12 5'
7803	20498	33619	0.81	1.0E-51	BF434359.1	EST_HUMAN	601464995F1 NIH_MGC_87 Homo sapiens cDNA clone IMAGE:3868248 5'
11783	25434		2	1.0E-51	AV760590.1	EST_HUMAN	b120561 Testis 1 Homo sapiens cDNA clone b12056
10587	23282	36520	1.39	9.0E-52	R91638.1	EST_HUMAN	ts39g02.x1 Soares_NHMPu_S1 Homo sapiens cDNA clone IMAGE:2089106 3'
10587	23282	36521	1.39	9.0E-52	R91638.1	EST_HUMAN	7c96b02.x1 NCI_CGAP_Ov18 Homo sapiens cDNA clone IMAGE:3844091 3' similar to TR:P87892 P87892
12301	24726		5.36	9.0E-52	AA77621.1	EST_HUMAN	PROTEASE ;
148	12983	25605	9.99	8.0E-52	AA720574.1	EST_HUMAN	AV760590 MDS Homo sapiens cDNA clone MDSOBB02 5'
1482	14229	26915	1.65	8.0E-52	X84900.1	NT	Yq10h04.r1 Soares fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:196567 5' similar to
							SP:YGAF_ECOLI_P37339 HYPOTHETICAL PROTEIN IN GABP 3'REGION ;
							Yq10h04.r1 Soares fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:196567 5' similar to
							SP:YGAF_ECOLI_P37339 HYPOTHETICAL PROTEIN IN GABP 3'REGION ;
							z95a07.s1 Soares fetal liver spleen 1NFLS_S1 Homo sapiens cDNA clone IMAGE:448500 3' similar to
							contains THR13 THR repetitive element ;
							tw21g02.s1 NCI_CGAP_GC80 Homo sapiens cDNA clone IMAGE:1241138 3' similar to contains THR13
							THR repetitive element ;
							H. sapiens mRNA for laminin-5, alpha3b chain

Table 4
Single Exon Probes Expressed in Brain

Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
1650	14396	27085	3.13	8.0E-52	11968028	NT	Homo sapiens hypothetical protein FLJ13556 similar to N-myc downstream regulated 3 (FLJ13556), mRNA
1650	14396	27086	3.13	8.0E-52	11968028	NT	Homo sapiens hypothetical protein FLJ13556 similar to N-myc downstream regulated 3 (FLJ13556), mRNA
3976	14396	27085	6.6	8.0E-52	11968028	NT	Homo sapiens hypothetical protein FLJ13556 similar to N-myc downstream regulated 3 (FLJ13556), mRNA
3976	14396	27086	6.6	8.0E-52	11968028	NT	Homo sapiens hypothetical protein FLJ13556 similar to N-myc downstream regulated 3 (FLJ13556), mRNA
7417	20094	33179	0.67	8.0E-52	11416585	NT	Homo sapiens transforming growth factor, beta-induced, 68kD (TGFB1), mRNA
7417	20094	33179	0.67	8.0E-52	11416585	NT	Homo sapiens transforming growth factor, beta-induced, 68kD (TGFB1), mRNA
8911	21602	34745	2.04	7.0E-52	W56471.1	EST_HUMAN	zc59a06.r1 Soares_parathyroid_tumor_NbHPA Homo sapiens cDNA clone IMAGE:326578 5' similar to contains Alu repetitive element
1164	13918		0.76	6.0E-52	BE072409.1	EST_HUMAN	QV3-BT0537-271299-049-d07 B T0537 Homo sapiens cDNA
1689	14433	27129	4.27	6.0E-52	AF109907.1	NT	Homo sapiens S164 gene, partial cds; PS1 and hypothetical protein genes, complete cds; and S171 gene, partial cds
5841	18436	31349	0.86	6.0E-52	AI208794.1	EST_HUMAN	gg44f04.x1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:1838047 3'
11170	23837	37119	1.84	6.0E-52	BE048172.1	EST_HUMAN	tz46h04.y1 NCJ_CGAP_Brn52 Homo sapiens cDNA clone IMAGE:2291671 5' similar to SW:PCBM_MOUSE Q05793 BASEMENT MEMBRANE-SPECIFIC HEPARAN SULFATE PROTEOGLYCAN CORE PROTEIN PRECURSOR ;
9292	21959	35132	0.6	5.0E-52	11437365	NT	Homo sapiens FSHD region gene 1 (FRG1), mRNA
1723	14666	27165	1.32	4.0E-52	4501922	NT	Homo sapiens adenylate cyclase activating polypeptide 1 (pituitary) receptor type 1 (ADCYAP1R1) mRNA
1780	14521	27225	1.02	4.0E-52	4758843	NT	Homo sapiens nucleoporin 155kD (NUP155) mRNA
3908	16658	29287	0.99	4.0E-52	4507500	NT	Homo sapiens T-cell lymphoma invasion and metastasis 1 (TIAM1) mRNA
5204	18012	30633	1.33	4.0E-52	4506132	NT	Homo sapiens phosphoribosyl pyrophosphate synthetase-associated protein 2 (PRPSAP2) mRNA
5204	18012	30634	1.33	4.0E-52	4506132	NT	Homo sapiens phosphoribosyl pyrophosphate synthetase-associated protein 2 (PRPSAP2) mRNA
7938	20633	33760	1.74	4.0E-52	BE02032.1	EST_HUMAN	601440687F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3915836 6'
8432	21125	34263	5.48	4.0E-52	11417035	NT	Homo sapiens hydroxysteroid (17-beta) dehydrogenase 4 (HSD17B4), mRNA
12143	24631		5.11	4.0E-52	11418177	NT	Homo sapiens Ran GTPase activating protein 1 (RANGAP1), mRNA
12827	24930		5.23	4.0E-52	AB002059.1	NT	Homo sapiens DNA for Human P2XM, complete cds
4071	16815		10.57	3.0E-52	11437042	NT	Homo sapiens hypothetical protein FLJ10675 (FLJ10675), mRNA
549	13332	25982	2.88	2.0E-52	M10976.1	NT	Human endogenous retroviral DNA (4-1), complete retroviral segment
549	13332	25983	2.88	2.0E-52	M10976.1	NT	Human endogenous retroviral DNA (4-1), complete retroviral segment

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Single Exon Probes Expressed in Brain

Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
2503	15220	27963	2.04	2.0E-52	BE207575.1	EST_HUMAN	bb66b07.y1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3030421 5' similar to gb.X16493 M.musculus mRNA for Zpf-1 zinc finger protein (MOUSE);
2740	15446		6.03	2.0E-52	BF677892.1	EST_HUMAN	602084710F1 NIH_MGC_83 Homo sapiens cDNA clone IMAGE:4248891 5'
4920	17648	30260	2.13	2.0E-52	AL137188.3	NT	Novel human gene mapping to chromosome 20, similar to membrane transporters
4952	17678	30287	1.29	2.0E-52	AI141802.1	EST_HUMAN	qs56e05.s1 Soares_NihHMPu_S1 Homo sapiens cDNA clone IMAGE:1690784 3'
4952	17678	30288	1.29	2.0E-52	AI141802.1	EST_HUMAN	qs56e05.s1 Soares_NihHMPu_S1 Homo sapiens cDNA clone IMAGE:1690784 3'
5617	18413	31326	4.11	2.0E-52	AW848041.1	EST_HUMAN	IL3-CT0214-231299-053-E12 CT0214 Homo sapiens cDNA
6274	19047	32024	1.96	2.0E-52	11141868	NT	Homo sapiens interleukin 21 receptor (IL21R), mRNA
6613	19376	32390	0.99	2.0E-52	AB029004.1	NT	Homo sapiens mRNA for KIAA1081 protein, partial cds
6843	19543	32571	1.17	2.0E-52	AI792146.1	EST_HUMAN	os45d12.y5 NCI_CGAP_Br2 Homo sapiens cDNA clone IMAGE:1608311 5'
8551	21243		9.03	2.0E-52	AF147880.1	NT	Macaca mulatta beta-tubulin mRNA, complete cds
8834	21526	34672	0.81	2.0E-52	AA778795.1	EST_HUMAN	z145g05.s1 Soares_fetal_liver_spleen_1NFLS_S1 Homo sapiens cDNA clone IMAGE:453272 3'
9379	21954		0.88	2.0E-52	4758789	NT	Homo sapiens NADH dehydrogenase (ubiquinone) Fe-S protein 5 (15kD) (NADH-coenzyme Q reductase) (NDUFS5) mRNA
10015	22663	35879	5.53	2.0E-52	5730038	NT	Homo sapiens SET domain and mariner transposase fusion gene (SETMAR) mRNA
10015	22663	35880	5.53	2.0E-52	5730038	NT	Homo sapiens SET domain and mariner transposase fusion gene (SETMAR) mRNA
11165	23832	37111	3.15	2.0E-52	AI831462.1	EST_HUMAN	w149c04.x1 NCI_CGAP_Lu19 Homo sapiens cDNA clone IMAGE:2406150 3' similar to contains THR.b2 THR repetitive element ;
11165	23832	37112	3.15	2.0E-52	AI831462.1	EST_HUMAN	w149c04.x1 NCI_CGAP_Lu19 Homo sapiens cDNA clone IMAGE:2406150 3' similar to contains THR.b2 THR repetitive element ;
11178	23845	37131	3.09	2.0E-52	AV715377	EST_HUMAN	AV715377 DCB Homo sapiens cDNA clone DCBAIE03 5'
11325	24016		1.72	2.0E-52	W70260.1	EST_HUMAN	z149g12.r1 Soares_fetal_heart_NihH19W Homo sapiens cDNA clone IMAGE:344038 5'
11618	24215		2.76	2.0E-52	11417890	NT	Homo sapiens LIM domain kinase 2 (LIMK2), mRNA
11981	25408	30801	24.36	2.0E-52	AW236297.1	EST_HUMAN	xn72e07.x1 NCI_CGAP_CML1 Homo sapiens cDNA clone IMAGE:2700036 3' similar to contains Alu repetitive element; contains element LTR2 repetitive element ;
12350	24756		4.49	2.0E-52	AI808985.1	EST_HUMAN	wf67d05.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2360649 3' similar to TR:Q16859 Q16859 CARBOXYLESTERASE ;
520	13304	25637	1.96	1.0E-52	AA634445.1	EST_HUMAN	zu76h12.s1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:743879 3'
1350	14098	26773	37.84	1.0E-52	4504026	NT	Homo sapiens glutamate-ammonia ligase (glutamine synthase) (GLUL) mRNA
2537	15252		0.9	1.0E-52	4502238	NT	Homo sapiens arylsulfatase D (ARSD), transcript variant 1, mRNA
3055	15821	28465	2.67	1.0E-52	S61070.1	NT	pol=reverse transcriptase homolog (retroviral element) [human, endogenous retroviral element RTVL-Hp1, Genomic, 660 nt]
5250	18056	30684	4.35	1.0E-52	M29426.1	NT	Human P-glycoprotein (MDR1) gene, exon 4
6300	19073	32059	2.51	1.0E-52	U38964.1	NT	Human PMS2 related (hPMSR2) gene, complete cds

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Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
7330	20012	33090	5.31	1.0E-52	X07282.1	NT	Human aldolase C gene for fructose-1,6-bisphosphate aldolase
8364	21057		1.2	1.0E-52	AL163227.2	NT	Homo sapiens chromosome 21 segment HS21C027
9087	21776	34940	0.75	1.0E-52	AF078779.1	NT	Rattus norvegicus putative four repeat ion channel mRNA, complete cds
10476	23122		1.03	1.0E-52	AW020370.1	EST_HUMAN	d08g05.y1 Morton Fetal Cochlea Homo sapiens cDNA clone IMAGE:2483145 5'
10486	23132		1.39	1.0E-52	AL163202.2	NT	Homo sapiens chromosome 21 segment HS21C002
10665	23356	36596	1.81	1.0E-52	U48296.1	NT	Homo sapiens protein tyrosine phosphatase PTPCAAX1 (hPTPCAAX1) mRNA, complete cds
10740	23427		2.09	1.0E-52	11426321	NT	Homo sapiens probasome (prosome, macropain) subunit, beta type, 2 (PSMB2), mRNA
3771	16523	29161	1.05	9.0E-53	4506064	NT	Homo sapiens protein kinase, cAMP-dependent, regulatory, type II, beta (PRKAR2B) mRNA
4359	17097	29732	1.96	9.0E-53	AF001448.1	NT	Homo sapiens core binding factor alpha1 subunit (CBFA1) gene, exon 3
12189	24560		3.18	7.0E-53	BF238465.1	EST_HUMAN	601904771F1 NIH_MGC_54 Homo sapiens cDNA clone IMAGE:4132793 5'
12600	25285		4.92	7.0E-53	A1421782.1	EST_HUMAN	601904771F1 NIH_MGC_54 Homo sapiens cDNA clone IMAGE:2096077 3' similar to contains THR.t1
5086	17805	30422	1.02	6.0E-53	BE295719.1	EST_HUMAN	THR repetitive element;
4078	16822	29448	2.28	5.0E-53	4788543	NT	601175776F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:3530946 5'
12236	24688		1.58	5.0E-53	AW813563.1	EST_HUMAN	Homo sapiens heterogeneous nuclear ribonucleoprotein C (C1/C2) (HNRPC) mRNA
48	12877	25502	2.76	4.0E-53	AL163285.2	NT	RC3-ST0197-151099-011-g10 ST0197 Homo sapiens cDNA
48	12877	25503	2.76	4.0E-53	AL163285.2	NT	Homo sapiens chromosome 21 segment HS21C085
4771	17503	30125	1.03	4.0E-53	7705414	NT	Homo sapiens hook1 protein (HOOK1), mRNA
8316	21983		0.66	4.0E-53	A1613037.1	EST_HUMAN	606h04.x1 NCI_CGAP_U13 Homo sapiens cDNA clone IMAGE:2278327 3'
9656	22308		0.67	4.0E-53	F13080.1	EST_HUMAN	HSC3D041 normalized infant brain cDNA Homo sapiens cDNA clone c-3id04
11175	23842	37126	2.78	4.0E-53	BF128701.1	EST_HUMAN	601810969F1 NIH_MGC_48 Homo sapiens cDNA clone IMAGE:4053977 5'
11175	23842	37127	2.78	4.0E-53	BF128701.1	EST_HUMAN	601810969F1 NIH_MGC_48 Homo sapiens cDNA clone IMAGE:4053977 5'
2665	15375	28114	1.77	3.0E-53	AB026898.1	NT	Homo sapiens DNA, DLEC1 to ORCTL4 gene region, section 1/2 (DLEC1, ORCTL3, ORCTL4 genes, complete cds)
4549	17284	29914	0.74	3.0E-53	AW803563.1	EST_HUMAN	IL2-UM0081-240300-055-D03 UM0081 Homo sapiens cDNA
5339	18142	30803	0.7	3.0E-53	AF001212.1	NT	Homo sapiens 26S proteasome subunit 9 mRNA, complete cds
5538	18336	31243	0.82	3.0E-53	11526297	NT	Homo sapiens MIL1 protein (MIL1), mRNA
6101	18879	31846	0.85	3.0E-53	BE160025.1	EST_HUMAN	QV1-HT0412-280300-123-c04 HT0412 Homo sapiens cDNA
6998	19690	32740	1.04	3.0E-53	Y10388.3	NT	H.sapiens graf gene
6998	19690	32741	1.04	3.0E-53	Y10388.3	NT	H.sapiens graf gene
8203	20897	34034	12.52	3.0E-53	S72043.1	NT	GIF=growth inhibitory factor [human, brain, Genomic, 2015 nt]
8758	21450	34597	0.65	3.0E-53	10835090	NT	Homo sapiens bone morphogenetic protein 5 (BMP5), mRNA
8955	21646		8.41	3.0E-53	5901953	NT	Homo sapiens FGFR1 oncogene partner (FOP), mRNA
11826	24410	37746	2.79	3.0E-53	8923599	NT	Homo sapiens hypothetical protein FLJ20844 (FLJ20844), mRNA

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Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Database Source	Top Hit Descriptor
445	13231		5.82	2.0E-53	AA366566.1	EST_HUMAN
2327	15052	27788	2.79	2.0E-53	U78027.1	Homo sapiens Bruton's tyrosine kinase (BTK), alpha-D-galactosidase A (GLA), L44-like ribosomal protein (L44L) and FTP3 (FTP3) genes, complete cds
2538	15253		8.73	2.0E-53	4502316	Homo sapiens ATPase, H+ transporting, lysosomal (vacuolar proton pump) 31kD; Vacuolar proton-ATPase, subunit E; V-ATPase, subunit E (ATP6E), mRNA
2729	15436	28172	1.48	2.0E-53	4757915	Homo sapiens core-binding factor, runt domain, alpha subunit 2, translocated to, 1; cyclin D-related (CBFA2T1) mRNA
2728	15438	28173	1.48	2.0E-53	4757916	Homo sapiens core-binding factor, runt domain, alpha subunit 2, translocated to, 1; cyclin D-related (CBFA2T1) mRNA
3239	16001	28651	3.72	2.0E-53	AF083822.1	Homo sapiens dihydropyridine receptor alpha 2 subunit (CACNA2D1) gene, exon 6
4036	16781	28411	2.53	2.0E-53	M61873.1	Human Krueppel-related DNA-binding protein (TF34) gene, partial cds
5340	18143	30804	2.67	2.0E-53	BF34740.1	PM1-CT0396-170800-001-g03 CT0396 Homo sapiens cDNA
5340	18143	30805	2.67	2.0E-53	BF34740.1	PM1-CT0396-170800-001-g03 CT0396 Homo sapiens cDNA
7770	20468	33560	1	2.0E-53	AW975598.1	EST387707 MAGE resequences, MAGN Homo sapiens cDNA
9308	21975		3.82	2.0E-53	AW245676.1	2822665.5prime NIH_MGC_7 Homo sapiens cDNA clone IMAGE:2822665 5'
1428	14175	26860	1.51	1.0E-53	AJ271736.1	Homo sapiens Xq pseudoautosomal region; segment 2/2
3404	16162	28813	1.08	1.0E-53	AB028898.1	Homo sapiens DNA, DLEC1 to ORCTL4 gene region, section 1/2 (DLEC1, ORCTL3, ORCTL4 genes, complete cds)
6593	19358	32370	1.52	1.0E-53	BF364201.1	CM4-NN1028-150800-543-e02 NN1028 Homo sapiens cDNA
7147	19834	32903	0.88	1.0E-53	BE012071.1	RC6-BN1058-270400-031-D01 BN1058 Homo sapiens cDNA
7636	20531	33658	0.54	1.0E-53	AA248072.1	JB571.seq.F Human fetal heart, Lambda ZAP Express Homo sapiens cDNA 5'
8987	21677	34826	5.91	1.0E-53	X79536.1	H.sapiens mRNA for hnRNP core protein A1
11833	24417	37757	1.41	1.0E-53	X98411.1	H.sapiens mRNA for myosin-IE
11833	24417	37758	1.41	1.0E-53	X98411.1	H.sapiens mRNA for myosin-IE
11955	24507	37255	2.29	1.0E-53	AW245422.1	2822843.3prime NIH_MGC_7 Homo sapiens cDNA clone IMAGE:2822843 3'
5219	25063	30851	6.16	9.0E-54	4506786	Homo sapiens IQ motif containing GTPase activating protein 1 (IQGAP1) mRNA
202	13015	25655	2.4	8.0E-54	BE386785.1	601272863F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:3614031 5'
1827	14566	27278	1.77	8.0E-54	4504670	Homo sapiens insulin-like growth factor 2 receptor (IGF2R) mRNA
5845	18633	31568	26.87	8.0E-54	6005700	Homo sapiens ATP-binding cassette, sub-family A (ABC1), member 8 (ABCA8), mRNA
375	13200	25845	1.27	7.0E-54	AA812537.1	ai79c12.s1 Soares_testis_NHT Homo sapiens cDNA clone 1377046 3' similar to contains MER30.13 MER30 repetitive element ;
1822	14561	27273	1.65	7.0E-54	Y16645.1	Homo sapiens mRNA for monocyte chemotactic protein-2
2202	14930	27667	6.39	7.0E-54	N27177.1	yw68d12.s1 Soares_placenta_8to9weeks_2NBHP8to9w Homo sapiens cDNA clone IMAGE:257399 3' similar to contains LTR7.b3 LTR7 repetitive element ;

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Table 4
Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal:	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
10028	22676	35892	2.08	7.0E-54	11417222	NT	Homo sapiens similar to nuclear factor related to kappa B binding protein (H. sapiens) (LOC83182), mRNA
11047	23717	36986	1.74	7.0E-54	8923698	NT	Homo sapiens golgin-like protein (GLP), mRNA
11047	23717	36987	1.74	7.0E-54	8923698	NT	Homo sapiens golgin-like protein (GLP), mRNA
11261	23923		4.35	7.0E-54	AI160189.1	EST_HUMAN	qb67g03.x1 Soares_fetal_heart_Nb-H19W Homo sapiens cDNA clone IMAGE:1705204 3' similar to contains OFR.11 OFR repetitive element;
11811	24400	37736	1.49	7.0E-54	AF111167.2	NT	Homo sapiens jun dimerization protein gene, partial cds; cfos gene, complete cds; and unknown gene
11811	24400	37737	1.49	7.0E-54	AF111167.2	NT	Homo sapiens jun dimerization protein gene, partial cds; cfos gene, complete cds; and unknown gene
22	12850	25465	1.41	6.0E-54	AB03618.1	NT	Homo sapiens DNA for M1GB, exon 4, 5 and partial cds
376	13201	25846	6.83	6.0E-54	8922148	NT	Homo sapiens hypothetical protein DKFZp434M035 (DKFZp434M035), mRNA
376	13201	25847	6.83	6.0E-54	8922148	NT	Homo sapiens hypothetical protein DKFZp434M035 (DKFZp434M035), mRNA
3277	18036	28688	0.77	6.0E-54	8922148	NT	Homo sapiens hypothetical protein DKFZp434M035 (DKFZp434M035), mRNA
3986	16734	29368	1.91	6.0E-54	4802872	NT	Homo sapiens chloride channel 8 (CLON8) mRNA
4429	17165	29794	0.86	6.0E-54	AV754746.1	EST_HUMAN	AV754746 TP Homo sapiens cDNA clone TPGAAC10 5'
4792	17523	30145	1.78	6.0E-54	4805806	NT	Homo sapiens phosphatidylinositol 4-kinase, catalytic, alpha polypeptide (PIK4CA) mRNA
4819	17580		1.15	6.0E-54	Y08846.1	NT	H. sapiens shc pseudogene, p66 isoform
11432	23199	39430	1.51	6.0E-54	AW813667.1	EST_HUMAN	RC3-ST0197-151089-011-108 ST0197 Homo sapiens cDNA
2146	14876	27611	3.78	5.0E-54	P51523	SWISSPROT	ZINC FINGER PROTEIN 84 (ZINC FINGER PROTEIN HPP2)
178	12990		13.34	4.0E-54	AF110103.1	NT	Tupala belangeri beta-actin mRNA, partial cds
836	13703	26368	57.5	4.0E-54	AA306764.1	EST_HUMAN	EST177898 Jurkat T-cells VI Homo sapiens cDNA 5' end similar to glyceraldehyde-3-phosphate dehydrogenase
1798	14538	27248	3.22	4.0E-54	D38521.1	NT	Human mRNA for KIAA0077 gene, partial cds
1798	14538	27249	3.22	4.0E-54	D38521.1	NT	Human mRNA for KIAA0077 gene, partial cds
3199	15992		1	4.0E-54	AI935096.1	EST_HUMAN	wd26d11.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2329268 3' similar to TR:O02711
92	12918	25555	4.47	3.0E-54	AA313487.1	EST_HUMAN	O02711 PRO-POL-DUTPASE POLYPROTEIN;
1565	14312		0.91	3.0E-54	AW515742.1	EST_HUMAN	EST185371 Colon carcinoma (HCC) cell line Homo sapiens cDNA 5' end
2574	15288	28025	0.96	3.0E-54	AL110383.1	EST_HUMAN	hd87g08.x1 NOI_CGAP_GC8 Homo sapiens cDNA clone IMAGE:2816542 3'
2630	15342		1.34	3.0E-54	AI908757.1	EST_HUMAN	DKFZp434E0731_r1 434 (synonym: hbs3) Homo sapiens cDNA clone DKFZp434E0731 5'
5814	18603	31531	1.74	3.0E-54	4502434	NT	IL-BT188-160369-007 BT189 Homo sapiens cDNA
7288	18971	33048	2.1	3.0E-54	AA844061.1	EST_HUMAN	Homo sapiens BMX non-receptor tyrosine kinase (BMX) mRNA
7288	18971	33049	2.1	3.0E-54	AA844061.1	EST_HUMAN	a92c08.s1 Soares_parathyroid_tumor_NbHPA Homo sapiens cDNA clone IMAGE:1388270 3'
							a92c08.s1 Soares_parathyroid_tumor_NbHPA Homo sapiens cDNA clone IMAGE:1388270 3'

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
10949	23627		1.63	3.0E-54	11434806	NT	Homo sapiens golgi autoantigen, golgin subfamily a, 5 (GOLGA5), mRNA
11024	23698	36959	4.93	3.0E-54	BF345600.1	EST_HUMAN	602019408F1 NCI_CGAP_Brn67 Homo sapiens cDNA clone IMAGE:4155121 5'
11341	24031	37335	3.26	3.0E-54	AA393362.1	EST_HUMAN	z170f12.r1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:727727 5' similar to TR:G191315
12056	24573	31119	2.98	3.0E-54	AW954559.1	EST_HUMAN	G191315 ANDROGEN-DEPENDENT EXPRESSED PROTEIN. ;
12097	25373		2.51	3.0E-54	AW748965.1	EST_HUMAN	EST369623 IMAGE resequences, MAGC Homo sapiens cDNA
627	13408	26040	8.86	2.0E-54	5031900	NT	RC1-BT0313-131199-011-509 BT0313 Homo sapiens cDNA
1344	14092	26767	0.96	2.0E-54	4507164	NT	Homo sapiens killer cell lectin-like receptor subfamily G, member 1 (KLRG1), mRNA
1539	14286	26972	1.37	2.0E-54	AA655008.1	EST_HUMAN	Homo sapiens nuclear antigen Sp100 (SP100) mRNA
2541	15255	27995	1.22	2.0E-54	AW163175.1	EST_HUMAN	nt78a09.s1 NCI_CGAP_P73 Homo sapiens cDNA clone IMAGE:1204600 similar to contains element L1
2608	15320	28062	1.65	2.0E-54	AL163210.2	NT	repetitive element ;
2896	15663	28311	1.52	2.0E-54	AW057524.1	EST_HUMAN	au92g03.y1 Schneider fetal brain 00004 Homo sapiens cDNA clone IMAGE:2783764 5' similar to
3311	16071	28721	1.18	2.0E-54	AJ278314.1	NT	SW:CUL1_HUMAN Q13618 CULLIN HOMOLOG 1 ;
3538	16292		3.2	2.0E-54	AA532925.1	EST_HUMAN	Homo sapiens chromosome 21 segment HS21C010
4181	18921		2.06	2.0E-54	4502642	NT	wy60b12.x1 Soares_NSF_F8_gw_OT_PA_P_S1 Homo sapiens cDNA clone IMAGE:2552927 3' similar to
4825	17556	30178	1.02	2.0E-54	7708448	NT	TR:Q62084 Q62084 PHOSPHOLIPASE C NEIGHBORING ;
5388	18188	30880	1.64	2.0E-54	4759069	NT	Homo sapiens mRNA for phospholipase C-beta-1b (PLCB1 gene)
5516	18314	31218	1.2	2.0E-54	BE047864.1	EST_HUMAN	Homo sapiens chaperonin containing T-complex subunit 6 (CCT6) mRNA
5675	18469	31385	5.04	2.0E-54	11426657	NT	Homo sapiens peptidylarginine deiminase type III (LOC51702), mRNA
5771	18562	31489	13.99	2.0E-54	AB046811.1	NT	Homo sapiens small inducible cytokine subfamily A (Cys-Cys), member 14 (SCYA14) mRNA
5771	18562	31490	13.99	2.0E-54	AB046811.1	NT	tz43c11.y1 NCI_CGAP_Brn52 Homo sapiens cDNA clone IMAGE:2291348 5'
6559	19324	32331	0.68	2.0E-54	AF008915.1	NT	Homo sapiens KIAA0100 gene product (KIAA0100), mRNA
6713	19628	32672	0.65	2.0E-54	AB023212.1	NT	Homo sapiens mRNA for KIAA1591 protein, partial cds
6713	19628	32673	0.65	2.0E-54	AB023212.1	NT	Homo sapiens EVI5 homolog mRNA, complete cds
7023	19715	32772	8.6	2.0E-54	11426544	NT	Homo sapiens mRNA for KIAA0995 protein, partial cds
9529	22182	35366	4.11	2.0E-54	AB001025.1	NT	Homo sapiens neurofibromin 1 (neurofibromatosis, von Recklinghausen disease, Watson disease) (NF1), mRNA
9909	22558	35753	0.79	2.0E-54	11429127	NT	Homo sapiens mRNA for brain ryanodine receptor, complete cds
10021	22669	35885	1.01	2.0E-54	11416762	NT	Homo sapiens Janus kinase 2 (a protein tyrosine kinase) (JAK2), mRNA
10021	22669	35886	1.01	2.0E-54	11416762	NT	Homo sapiens serologically defined colon cancer antigen 10 (SDCCAG10), mRNA
							Homo sapiens serologically defined colon cancer antigen 10 (SDCCAG10), mRNA

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Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
10947	19324	32331	1.57	2.0E-54	AF008915.1	NT	Homo sapiens EVI5 homolog mRNA, complete cds
11727	24321		2.86	2.0E-54	7657454	NT	Homo sapiens pescadillo (zebrafish) homolog 1, containing BRCT domain (PES1), mRNA
4432	17168		1.22	1.0E-54	BF315418.1	EST_HUMAN	601899230F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:4128835 5'
10153	22801	36018	0.52	1.0E-54	AA412409.1	EST_HUMAN	Zu10e09.r1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:731484 5'
10153	22801	36019	0.52	1.0E-54	AA412409.1	EST_HUMAN	Zu10e09.r1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:731484 5'
12710	24988		2.17	1.0E-54	AU077341.1	EST_HUMAN	AU077341 Sugano cDNA library Homo sapiens cDNA clone Zv6C880 similar to 5'-end region of Human
10257	22805	36115	0.94	9.0E-55	BE081469.1	EST_HUMAN	gamma-glutamyl transpeptidase mRNA, 5 end
1282	14041		1.09	8.0E-55	Y07829.2	NT	Homo sapiens RFB30 gene for RING finger protein
1295	14044		2.63	8.0E-55	Y07829.2	NT	Homo sapiens RFB30 gene for RING finger protein
11151	23818		1.67	8.0E-55	AW409714.1	EST_HUMAN	if02a02.x1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:2960907 5'
1059	13817	26479	0.77	7.0E-55	R09346.1	EST_HUMAN	yf26a04.r1 Soares fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:127998 5' similar to SP:C561 BOVIN P10897 CYTOCHROME ;
8703	21395		0.8	7.0E-55	AW103839.1	EST_HUMAN	xt76c02.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2603522 3' similar to TR:O60365
9080	21769	34932	1.26	7.0E-55	AA889581.1	EST_HUMAN	O60365 FOS39554_1 ;
9115	21803	34968	2.16	7.0E-55	AU139909.1	EST_HUMAN	ak28a11.s1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:1407260 3'
11171	23838	37120	10.32	7.0E-55	A1561056.1	EST_HUMAN	AU139909 PLACE1 Homo sapiens cDNA clone PLACE1011576 5'
11171	23838	37121	10.32	7.0E-55	A1561056.1	EST_HUMAN	lq29f09.x1 NCI_CGAP_U11 Homo sapiens cDNA clone IMAGE:2210249 3'
12682	25303		2.5	7.0E-55	h23396.1	EST_HUMAN	lq29f09.x1 NCI_CGAP_U11 Homo sapiens cDNA clone IMAGE:2210249 3'
11498	24089	37412	2.45	6.0E-55	AB040834.1	NT	ym57g07.r1 Soares Infant brain 1N1B Homo sapiens cDNA clone IMAGE:52444 5'
1763	14505	27205	1.19	5.0E-55	AA704971.1	EST_HUMAN	Homo sapiens mRNA for KIAA1501 protein, partial cds
1763	14505	27206	1.19	5.0E-55	AA704971.1	EST_HUMAN	z95b09.s1 Soares_fetal_liver_spleen_1NFLS_S1 Homo sapiens cDNA clone IMAGE:462817 3'
4720	17452	30086	1.81	5.0E-55	AW206021.1	EST_HUMAN	z95b09.s1 Soares_fetal_liver_spleen_1NFLS_S1 Homo sapiens cDNA clone IMAGE:462817 3'
6446	19214	32211	1.65	5.0E-55	4502240	NT	U1-H-B11-afy-g-09-0-U1.s1 NCI_CGAP_Sub3 Homo sapiens cDNA clone IMAGE:2723538 3'
6446	19214	32212	1.65	5.0E-55	4502240	NT	Homo sapiens arylsulfatase E (chondrodysplasia punctata 1) (ARSE), mRNA
6588	25094	32340	1.34	6.0E-55	4505952	NT	Homo sapiens arylsulfatase E (chondrodysplasia punctata 1) (ARSE), mRNA
6588	25094	32341	1.34	6.0E-55	4505952	NT	Homo sapiens paraoxonase 2 (PON2) mRNA, and translated products
6837	19672	32718	0.83	5.0E-55	7382477	NT	Homo sapiens paraoxonase 2 (PON2) mRNA, and translated products
7195	19881	32855	0.7	5.0E-55	11434422	NT	Homo sapiens Rho GTPase activating protein 6 (RHGAP6), transcript variant 5, mRNA
7893	20588	33718	0.72	5.0E-55	11526491	NT	Homo sapiens speckle-type POZ protein (SPOP), mRNA
8942	21633	34777	3.53	5.0E-55	4506302	NT	Homo sapiens BCL2-associated athanogene (BAG1), mRNA
9219	21898		1.75	5.0E-55	BE064386.1	EST_HUMAN	Homo sapiens protein tyrosine phosphatase, receptor type, alpha polypeptide (PTPRA) mRNA
9937	22585	35786	1.77	5.0E-55	AB014511.1	NT	RC4-BT0310-110300-015-110 BT0310 Homo sapiens cDNA Homo sapiens mRNA for KIAA0611 protein, partial cds

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Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
9937	22585	35787	1.77	5.0E-55	AB014511.1	NT	Homo sapiens mRNA for KIAA0611 protein, partial cds
10122	22770	35984	2.48	5.0E-55	5453765	NT	Homo sapiens nel (chicken)-like 2 (NELL2), mRNA
12137	24628		2.73	5.0E-55	11417972	NT	Homo sapiens pescadillo (zebrafish) homolog 1, containing BRCT domain (PES1), mRNA
657	13434	26075	65.4	4.0E-55	4826973	NT	Homo sapiens RNA binding motif protein, Y chromosome, family 1, member A1 (RBM1A1), mRNA
1421	14168	26853	1.78	4.0E-55	7661713	NT	Homo sapiens predicted osteoblast protein (GS3786), mRNA
1421	14169	26854	1.78	4.0E-55	7661713	NT	Homo sapiens predicted osteoblast protein (GS3786), mRNA
1504	14250		1.7	4.0E-55	BF061411.1	EST_HUMAN	7152b10.x1 Soares NSF F8_9W_OT_PA_P_S1 Homo sapiens cDNA clone IMAGE:3390043 3' similar to contains L1.13 L1 repetitive element;
2019	14754	27482	0.97	4.0E-55	4506180	NT	Homo sapiens proteasome (prosome, macropain) subunit, alpha type, 2 (PSMA2) mRNA
2019	14754	27483	0.97	4.0E-55	4506180	NT	Homo sapiens proteasome (prosome, macropain) subunit, alpha type, 2 (PSMA2) mRNA
2079	14811	27542	6.47	4.0E-55	4503314	NT	Homo sapiens diacylglycerol kinase, gamma (90kD) (DGKG) mRNA
2079	14811	27543	6.47	4.0E-55	4503314	NT	Homo sapiens diacylglycerol kinase, gamma (90kD) (DGKG) mRNA
2308	15033	27771	2.29	4.0E-55	4507794	NT	Homo sapiens ubiquitin-conjugating enzyme E2 variant 1 (UBE2V1) mRNA
2698	15310		1.21	4.0E-55	AJ271735.1	NT	Homo sapiens Xq pseudautosomal region; segment 1/2
8242	20936		8.37	4.0E-55	AL163210.2	NT	Homo sapiens chromosome 21 segment HS21C010
11194	23859		2.3	4.0E-55	W28189.1	EST_HUMAN	43c5 Human retina cDNA randomly primed sublibrary Homo sapiens cDNA
12057	24574		3.05	4.0E-55	BF303941.1	EST_HUMAN	601886575F2 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:4120338 5'
11998	24536		1.5	3.0E-55	BE178519.1	EST_HUMAN	PM1-HT0603-090300-001-g08 HT0603 Homo sapiens cDNA
12721	24993		1.85	3.0E-55	AL163284.2	NT	Homo sapiens chromosome 21 segment HS21C084
368	13164	25807	1.98	2.0E-55	X57147.1	NT	Human endogenous retrovirus pHE.1 (ERV9)
538	13321		1.13	2.0E-55	M10976.1	NT	Human endogenous retroviral DNA (4-1), complete retroviral segment
634	13413	26049	13.79	2.0E-55	4507296	NT	Homo sapiens syntaxin-binding protein 1 (STXB1) mRNA, and translated products
4723	17465	30090	2.91	2.0E-55	BE719988.1	EST_HUMAN	CM1-HT0876-150900-357-g03 HT0876 Homo sapiens cDNA
7403	25113	33162	0.78	2.0E-55	AW501988.1	EST_HUMAN	ULHF-BNO-aka-f-06-0-JLr1 NIH_MGC_50 Homo sapiens cDNA clone IMAGE:3078275 5'
8963	21654	34804	0.52	2.0E-55	BF224452.1	EST_HUMAN	h76h08.x1 NCI_CGAP_Kid11 Homo sapiens cDNA clone IMAGE:3134463 3'
8963	21654	34805	0.52	2.0E-55	BF224452.1	EST_HUMAN	h76h08.x1 NCI_CGAP_Kid11 Homo sapiens cDNA clone IMAGE:3134463 3'
9058	21747		6.23	2.0E-55	AJ002836.1	EST_HUMAN	am98h08.s1 Stragene schizo brain S11 Homo sapiens cDNA clone IMAGE:1684185 3' similar to contains THR.b2 THR repetitive element;
9140	21828		0.72	2.0E-55	BE007659.1	EST_HUMAN	QV0-BN0147-280400-213-g06 BN0147 Homo sapiens cDNA
10870	23550	36798	1.95	2.0E-55	AU119044.1	EST_HUMAN	AU119344 HEMBA1 Homo sapiens cDNA clone HEMBA1005583 5'
95	12921	25558	3.01	1.0E-55	4505060	NT	Homo sapiens mannose-6-phosphate receptor (cation dependent) (M6PR) mRNA
184	12997	25636	8.22	1.0E-55	U09823.1	NT	Oryzoblagus curvulus New Zealand white elongation factor 1 alpha (Rabeta2) mRNA, complete cds
1127	13883	26543	3.53	1.0E-55	AB020710.1	NT	Homo sapiens mRNA for KIAA0903 protein, partial cds

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Single Exon Probes Expressed in Brain

Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
1943	14878	27391	1.58	1.0E-55	BE277861.1	EST_HUMAN	601120116F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:2867027 5'
1943	14878	27392	1.58	1.0E-55	BE277861.1	EST_HUMAN	601120116F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:2867027 5'
2324	15049		2.48	1.0E-55	5803174	NT	Homo sapiens SMA3 (SMA3), mRNA
2338	15528	27798	1.17	1.0E-55	AF000990.1	NT	Homo sapiens testis-specific Testis Transcript Y 1 (TTY1) mRNA, partial cds
2521	15237	27976	9.05	1.0E-55	X13111.1	NT	Human mRNA for HLA-A11E, a MHC class I molecule (major histocompatibility complex)
2559	15273	28009	4.19	1.0E-55	AB007866.2	NT	Homo sapiens mRNA for KIAA0406 protein, partial cds
2559	15273	28010	4.19	1.0E-55	AB007866.2	NT	Homo sapiens mRNA for KIAA0406 protein, partial cds
2617	15328	28071	1.72	1.0E-55	L54057.1	NT	Homo sapiens CLP mRNA, partial cds
3970	18719	28353	4.28	1.0E-55	AL163267.2	NT	Homo sapiens chromosome 21 segment HS21C067
4262	17003	28635	1.26	1.0E-55	AL163210.2	NT	Homo sapiens chromosome 21 segment HS21C010
4882	17418		1.02	1.0E-55	N77261.1	EST_HUMAN	y44g03.1 Soares fetal liver spleen 1N1LS Homo sapiens cDNA clone IMAGE:245620 5'
5410	18209	30917	0.97	1.0E-55	AF119856.1	NT	Homo sapiens PRO1851 mRNA, complete cds
6178	18955	31929	6.82	1.0E-55	11433046	NT	Homo sapiens hct domain and RLD 2 (HERC2), mRNA
6178	18955	31930	6.82	1.0E-55	11433046	NT	Homo sapiens hct domain and RLD 2 (HERC2), mRNA
7888	20583	33712	1.64	1.0E-55	11432994	NT	Homo sapiens discs, large (Drosophila) homolog 2 (chapsyn-110) (DLG2), mRNA
7888	20583	33713	1.64	1.0E-55	11432994	NT	Homo sapiens discs, large (Drosophila) homolog 2 (chapsyn-110) (DLG2), mRNA
7980	20675	33799	0.89	1.0E-55	AF224492.1	NT	Homo sapiens phospholipid scramblase 1 gene, complete cds
7980	20675	33800	0.89	1.0E-55	AF224492.1	NT	Homo sapiens phospholipid scramblase 1 gene, complete cds
10829	23511	36751	1.75	1.0E-55	AL163210.2	NT	Homo sapiens chromosome 21 segment HS21C010
10829	23511	36752	1.75	1.0E-55	AL163210.2	NT	Homo sapiens chromosome 21 segment HS21C010
11425	23192	36423	2.53	1.0E-55	U50950.1	NT	Human infant brain unknown product mRNA, complete cds
11444	23211	38442	1.5	1.0E-55	T10045.1	EST_HUMAN	seq1575 b4HB3MA Cot8-HAP-Ft Homo sapiens cDNA clone b4HB3MA-COT8-HAP-F161 5' similar to similar to Chinese Hamster DHFR-cosmided protein mRNA
11569	24168	37482	2.35	1.0E-55	10567821	NT	Homo sapiens DNA-binding protein (LOC56242), mRNA
7285	18949	33026	1.83	9.0E-56	BE378074.1	EST_HUMAN	601237702F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3809552 5'
2737	15444	28182	5.32	7.0E-56	H19834.1	EST_HUMAN	y162g03.r1 Soares adult brain N2b5HB55v1 Homo sapiens cDNA clone IMAGE:173044 5' similar to contains THR repetitive element
7540	20210	33309	1.67	7.0E-56	AW361213.1	EST_HUMAN	RC1-CT0252-231089-013-b07 CT0252 Homo sapiens cDNA
7540	20210	33310	1.67	7.0E-56	AW361213.1	EST_HUMAN	RC1-CT0252-231089-013-b07 CT0252 Homo sapiens cDNA
1687	14431	27127	1.78	5.0E-56	AW697712.1	EST_HUMAN	RC3-BN0053-170200-011-h01 BN0053 Homo sapiens cDNA
9059	21748	34906	0.86	5.0E-56	AW015507.1	EST_HUMAN	U1H-B10p-aau-a-05-Q-U1.s1 NC1_OGAP_Sub2 Homo sapiens cDNA clone IMAGE:2710544 3'
10286	22834		1.61	5.0E-56	W28189.1	EST_HUMAN	43c5 Human retina cDNA randomly primed sublibrary Homo sapiens cDNA
12220	25359	30610	2	5.0E-56	H58099.1	EST_HUMAN	CHR22038 Chromosome 22 exon Homo sapiens cDNA clone C22_55 5'
26	12854	25469	8.58	4.0E-56	AF141349.1	NT	Homo sapiens beta-tubulin mRNA, complete cds

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Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
26	12854	25470	8.58	4.0E-56	AF141348.1	NT	Homo sapiens beta-tubulin mRNA, complete cds
2173	14902		2.69	4.0E-56	BF207586.1	EST_HUMAN	601862059F1 NIH_MGC_53 Homo sapiens cDNA clone IMAGE:4081551 5'
2712	15419	28157	7.28	4.0E-56	4507728	NT	Homo sapiens tubulin, beta polypeptide (TUBB) mRNA
2712	15419	28158	7.28	4.0E-56	4507728	NT	Homo sapiens tubulin, beta polypeptide (TUBB) mRNA
2815	13297	25929	3.49	4.0E-56	AF003528.1	NT	Homo sapiens X-linked anhidrotic ectodermal dysplasia protein gene (EDA), exon 2 and flanking repeat regions
2836	15331	28074	1.48	4.0E-56	AI632488.1	EST_HUMAN	wb09f08.x1 NCI_CGAP_G08 Homo sapiens cDNA clone IMAGE:2305191 3' similar to SW:DCOR_MUSPA P27119 ORNITHINE DECARBOXYLASE ;
2836	15331	28075	1.48	4.0E-56	AI632488.1	EST_HUMAN	wb09f08.x1 NCI_CGAP_G08 Homo sapiens cDNA clone IMAGE:2305191 3' similar to SW:DCOR_MUSPA P27119 ORNITHINE DECARBOXYLASE ;
6164	18941	31912	6.01	4.0E-56	AF217508.1	NT	Homo sapiens uncharacterized bone marrow protein BM031 mRNA, complete cds
6164	18941	31913	6.01	4.0E-56	AF217508.1	NT	Homo sapiens uncharacterized bone marrow protein BM031 mRNA, complete cds
10403	23049	36266	2.02	4.0E-56	AF043349.1	NT	Homo sapiens lymphocyte-specific protein 1 (LSP1) gene, LSP1-7 allele, partial cds
10841	23523	36764	8.88	4.0E-56	AI498066.1	EST_HUMAN	tm65g12.x1 NCI_CGAP_Bm25 Homo sapiens cDNA clone IMAGE:2163048 3'
10841	23523	36765	8.88	4.0E-56	AI498066.1	EST_HUMAN	tm65g12.x1 NCI_CGAP_Bm25 Homo sapiens cDNA clone IMAGE:2163048 3'
1319	14068	26742	4.17	3.0E-56	8924029	NT	Homo sapiens hypothetical protein PRO1304 (PRO1304), mRNA
3122	15887	28527	1.54	3.0E-56	AA325826.1	EST_HUMAN	EST28889 Cerebellum II Homo sapiens cDNA 5' end
3122	15887	28528	1.54	3.0E-56	AA325826.1	EST_HUMAN	EST28889 Cerebellum II Homo sapiens cDNA 5' end
3815	16567		1.61	3.0E-56	AF055066.1	NT	Homo sapiens MHC class 1 region
4355	17093	29728	1.43	3.0E-56	7657042	NT	Homo sapiens Down syndrome candidate region 1 (DSCR1), mRNA
4390	17127	29759	4.27	3.0E-56	AL163268.2	NT	Homo sapiens chromosome 21 segment HS21C088
4534	17269	29802	2.34	3.0E-56	5902085	NT	Homo sapiens superkiller viralicidic activity 2 (S. cerevisiae homolog)-like (SK(V2L)), mRNA
5598	18393	31302	2.12	3.0E-56	4759163	NT	Homo sapiens sperc/osteonectin, cwcx and kazal-like domains proteoglycan (testican) (SPOCK) mRNA
5598	18393	31303	2.12	3.0E-56	4759163	NT	Homo sapiens sperc/osteonectin, cwcx and kazal-like domains proteoglycan (testican) (SPOCK) mRNA
6775	19519	32547	7.03	3.0E-56	11421124	NT	Homo sapiens lysosomal-associated membrane protein 2 (LAMP2), mRNA
7223	19908	32981	1.15	3.0E-56	4504970	NT	Homo sapiens LIM binding domain 2 (LDB2) mRNA
7223	19908	32982	1.15	3.0E-56	4504970	NT	Homo sapiens LIM binding domain 2 (LDB2) mRNA
8715	21407	34550	4.68	3.0E-56	11418704	NT	Homo sapiens bone morphogenetic protein 5 (BMP5), mRNA
9713	22364	35562	0.85	3.0E-56	D63479.2	NT	Homo sapiens bone morphogenetic protein 5 (BMP5), mRNA
10379	23025	36240	1.38	3.0E-56	11434956	NT	Homo sapiens KIAA0317 gene product (KIAA0317), mRNA
10642	23333	36571	1.71	3.0E-56	AB042556.1	NT	Homo sapiens mRNA, similar to rat myomegalin, complete cds
11284	23945	37239	6.37	3.0E-56	5902013	NT	Homo sapiens nuclear pore complex interacting protein (NPIP), mRNA

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Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
11284	23945	37240	6.37	3.0E-56	5902013	NT	Homo sapiens nuclear pore complex interacting protein (NPIP), mRNA
11673	24268	37590	1.74	3.0E-56	U46900.1	NT	Homo sapiens NACP/alpha-synuclein gene, exon 5
11673	24268	37591	1.74	3.0E-56	U46900.1	NT	Homo sapiens NACP/alpha-synuclein gene, exon 5
12095	24597	31083	1.52	3.0E-56	11434878	NT	Homo sapiens caveolin 3 (CAV3), mRNA
12095	24597	31084	1.52	3.0E-56	11434878	NT	Homo sapiens caveolin 3 (CAV3), mRNA
511	13295		1.7	2.0E-56	AA199818.1	EST_HUMAN	z452a08.s1 Stratagene neuroepithelium (#937231) Homo sapiens cDNA clone IMAGE:645206 3'
718	15550	26141	1.05	2.0E-56	BE064386.1	EST_HUMAN	RC4-BT0310-110300-015-F10 BT0310 Homo sapiens cDNA
718	15550	26142	1.05	2.0E-56	BE064386.1	EST_HUMAN	RC4-BT0310-110300-015-F10 BT0310 Homo sapiens cDNA
2987	15753	28399	1.18	2.0E-56	AB037835.1	NT	Homo sapiens SET domain and mariner transposase fusion gene (SETMAR), mRNA
3523	16279	28934	1.84	2.0E-56	AV703184.1	EST_HUMAN	AV703184 ADB Homo sapiens cDNA clone ADBCFG10 5'
6990	19683	32731	1.47	2.0E-56	5730038	NT	Homo sapiens SET domain and mariner transposase fusion gene (SETMAR), mRNA
959	13724		1.84	1.0E-56	AF190930.1	NT	Macaca fascicularis protein tyrosine phosphatase (PRL-1) mRNA, complete cds
3664	16417	29058	2.15	1.0E-56	AW589833.1	EST_HUMAN	hg23c11.x1 NCL CGAP_G06 Homo sapiens cDNA clone IMAGE:2946452 3'
3664	16417	29057	2.15	1.0E-56	AW589833.1	EST_HUMAN	hg23c11.x1 NCL CGAP_G06 Homo sapiens cDNA clone IMAGE:2946452 3'
4972	17696	30303	0.99	1.0E-56	AI805162.1	EST_HUMAN	QV-BT077-130199-079 BT077 Homo sapiens cDNA
5118	17836	30453	0.97	1.0E-56	6881002	NT	Mus musculus cytoplasmic polyadenylation element binding protein (Cpeb), mRNA
6724	19558	32589	0.57	1.0E-56	AW609520.1	EST_HUMAN	MR3-ST0203-180100-208-H02 ST0203 Homo sapiens cDNA
9855	22505		0.59	1.0E-56	AL163203.2	NT	Homo sapiens chromosome 21 segment HS21C003
9948	22596	35800	1.71	1.0E-56	AW845987.1	EST_HUMAN	RC2-CT0163-220999-001-E02 CT0163 Homo sapiens cDNA
611	13389		2.52	9.0E-57	AW880885.1	EST_HUMAN	QV6-OT0033-070300-152-H03 OT0033 Homo sapiens cDNA
4180	16920	29548	1.14	9.0E-57	4758279	NT	Homo sapiens EphA4 (EPHA4) mRNA
4180	16920	29549	1.14	9.0E-57	4758279	NT	Homo sapiens EphA4 (EPHA4) mRNA
11183	23848	37134	2.17	9.0E-57	AF228497.1	NT	Homo sapiens serine protease 17 (KLK4) gene, complete cds
11183	23848	37135	2.17	9.0E-57	AF228497.1	NT	Homo sapiens serine protease 17 (KLK4) gene, complete cds
11506	24107	37420	1.48	9.0E-57	AB020981.1	NT	Homo sapiens mRNA for cyclin B2, complete cds
290	13096	25738	3.01	8.0E-57	AW816405.1	EST_HUMAN	QV4-ST0234-181199-037-005 ST0234 Homo sapiens cDNA
884	13633	26303	6.36	8.0E-57	AW264599.1	EST_HUMAN	xr05d10.x1 NCL CGAP_Bm63 Homo sapiens cDNA clone IMAGE:2759251 3' similar to gb.U056875
1809	14549	27284	1.51	8.0E-57	AA496109.1	EST_HUMAN	INTERFERON-GAMMA RECEPTOR BETA CHAIN PRECURSOR (HUMAN);
3376	16135	28791	0.98	8.0E-57	4758279	NT	z61b12.r1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:757151 5'
3376	16135	28792	0.98	8.0E-57	4758279	NT	Homo sapiens EphA4 (EPHA4) mRNA
4852	17582	30205	1.3	8.0E-57	4557630	NT	Homo sapiens EphA4 (EPHA4) mRNA
5161	25276	30728	3.29	8.0E-57	11418185	NT	Homo sapiens glutamate receptor, ionotropic, AMPA 4 (GRIA4) mRNA
6306	19078	32083	1.85	8.0E-57	AB020705.1	NT	Homo sapiens aconitase 2, mitochondrial (ACO2), mRNA
							Homo sapiens mRNA for KIAA0898 protein, partial cds

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
6372	19141	32137	12.87	8.0E-57	AB023177.1	NT	Homo sapiens mRNA for KIAA0960 protein, partial cds
6372	19141	32138	12.87	8.0E-57	AB023177.1	NT	Homo sapiens KIAA0960 protein, partial cds
7349	20030	33107	0.84	8.0E-57	7692263	NT	Homo sapiens KIAA0716 gene product (KIAA0716), mRNA
7648	20312	33423	1.7	8.0E-57	AB020644.1	NT	Homo sapiens mRNA for KIAA0837 protein, partial cds
7648	20312	33424	1.7	8.0E-57	AB020644.1	NT	Homo sapiens mRNA for KIAA0837 protein, partial cds
11460	17889	30487	3.28	8.0E-57	8923349	NT	Homo sapiens hypothetical protein FLJ20371 (FLJ20371), mRNA
12459	24828	31028	2.74	8.0E-57	11545732	NT	Homo sapiens SH3-domain binding protein 1 (SH3BP1), mRNA
12473	24828	31028	1.69	8.0E-57	11545732	NT	Homo sapiens SH3-domain binding protein 1 (SH3BP1), mRNA
12820	25060		2.07	8.0E-57	AB037783.1	NT	Homo sapiens mRNA for KIAA1342 protein, partial cds
2639	15350	28083	1.71	7.0E-57	7657582	NT	Homo sapiens smg GDS-ASSOCIATED PROTEIN (SMAP), mRNA
2639	15350	28094	1.71	7.0E-57	7657592	NT	Homo sapiens smg GDS-ASSOCIATED PROTEIN (SMAP), mRNA
3244	16006	28655	0.9	7.0E-57	7242158	NT	Homo sapiens NME7 (NME7), mRNA
3244	16006	28656	0.9	7.0E-57	7242158	NT	Homo sapiens NME7 (NME7), mRNA
3265	16027	28677	1.08	7.0E-57	6005979	NT	Homo sapiens Kruppel-like factor 8 (KLF8), mRNA
3858	16608	29246	1.39	7.0E-57	AF012872.1	NT	Homo sapiens phosphatidylinositol 4-kinase 230 (p4K230) mRNA, complete cds
3858	16608	29247	1.39	7.0E-57	AF012872.1	NT	Homo sapiens phosphatidylinositol 4-kinase 230 (p4K230) mRNA, complete cds
4398	17135		0.95	7.0E-57	AF020503.1	NT	Homo sapiens FRA3B common fragile region, diadenosine triphosphate hydrolase (FHIT) gene, exon 5
4730	17462	30089	0.95	7.0E-57	U11058.2	NT	Homo sapiens large conductance calcium- and voltage-dependent potassium channel alpha subunit (MaxK) mRNA, complete cds
12785	25310		2.63	5.0E-57	AJ271735.1	NT	Homo sapiens Xq pseudautosomal region; segment 1/2
3736	16489	29125	1.57	4.0E-57	AB026898.1	NT	Homo sapiens DNA, DLEC1 to ORCTL4 gene region, section 1/2 (DLEC1, ORCTL3, ORCTL4 genes, complete cds)
786	13558	26220	0.78	3.0E-57	4507798	NT	Homo sapiens ubiquitin protein ligase E3A (human papilloma virus E6-associated protein, Angelman syndrome) (UBE3A) mRNA
1308	14056		16.24	3.0E-57	AA230279.1	EST_HUMAN	nc13107.s1 NCL CGAP_P11 Homo sapiens cDNA clone IMAGE:1008037 similar to SW:RS10_HUMAN
2390	15111	27848	2.99	3.0E-57	AA348335.1	EST_HUMAN	P46783 40S RIBOSOMAL PROTEIN S10; .
2707	15414	28151	0.95	3.0E-57	BE676622.1	EST_HUMAN	EST64770 Hippocampus II Homo sapiens cDNA 5' end
2707	15414	28152	0.95	3.0E-57	BE676622.1	EST_HUMAN	733b10.x1 NCL CGAP_CLL1 Homo sapiens cDNA clone IMAGE:3286443 3' similar to WP:Y47H9C.2
3550	16305	28955	1.74	3.0E-57	AF232708.1	NT	733b10.x1 NCL CGAP_CLL1 Homo sapiens cDNA clone IMAGE:3286443 3' similar to WP:Y47H9C.2
3685	16438		62.34	3.0E-57	AW853984.1	EST_HUMAN	RC3-CT0254-110300-027-d10 CT0254 Homo sapiens cDNA

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
5939	18721	31680	1.24	3.0E-57	1125608	NT	Homo sapiens angiotensin I converting enzyme (peptidyl-dipeptidase A) 2 (ACE2), mRNA
6033	18813	31773	3.23	3.0E-57	BE796537.1	EST_HUMAN	60159896F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3944302 5'
8044	20738	33871	3.77	3.0E-57	W28130.1	EST_HUMAN	426 Human retina cDNA randomly primed sublibrary Homo sapiens cDNA
8070	20764	33892	2.16	3.0E-57	11545798	NT	Homo sapiens hypothetical protein FLJ11656 (FLJ11656), mRNA
8070	20764	33893	2.16	3.0E-57	11545798	NT	Homo sapiens hypothetical protein FLJ11656 (FLJ11656), mRNA
8179	20873	34008	0.7	3.0E-57	11427757	NT	Homo sapiens KIAA0849 gene product (KIAA0849), mRNA
8328	21021	34157	0.73	3.0E-57	J05262.1	NT	Human farnesyl pyrophosphate synthetase mRNA, complete cds
8757	21449	34598	4.17	3.0E-57	AU117659	EST_HUMAN	AU117659 HEMBA1 Homo sapiens cDNA clone HEMBA1001910 5'
9149	21880	35047	1.03	3.0E-57	11545798	NT	Homo sapiens hypothetical protein FLJ11656 (FLJ11656), mRNA
9149	21880	35048	1.03	3.0E-57	11545798	NT	Homo sapiens hypothetical protein FLJ11656 (FLJ11656), mRNA
10825	23508	36747	2.85	3.0E-57	AW248374.1	EST_HUMAN	2820473.5 prime NIH_MGC_7 Homo sapiens cDNA clone IMAGE:2820473 5'
12101	25381	30818	8.38	3.0E-57	W23871.1	EST_HUMAN	zb45d11.1 Soares_fetal_lung_NbHL19W Homo sapiens cDNA clone IMAGE:306549 5'
12460	26281	31010	2.32	3.0E-57	AW178575.1	EST_HUMAN	RCO-H70112-080999-001-C06 H70112 Homo sapiens cDNA
12623	24828	31010	1.48	3.0E-57	AJ003649.1	EST_HUMAN	AJ003649 Selected chromosome 21 cDNA library Homo sapiens cDNA clone MPIp10-1L1
1487	14234	26919	1.39	2.0E-57	AF246219.1	NT	Homo sapiens SNARE protein kinase SNAK mRNA, complete cds
1487	14234	26920	1.39	2.0E-57	AF246219.1	NT	Homo sapiens SNARE protein kinase SNAK mRNA, complete cds
3432	16188	28301	1.24	2.0E-57	AL163204.2	NT	Homo sapiens chromosome 21 segment HS21C004
3910	16660	28301	0.79	2.0E-57	BE073284.1	EST_HUMAN	MRO-BT0551-060300-103-b03 BT0551 Homo sapiens cDNA
4474	17209	29834	6.73	2.0E-57	AL163283.2	NT	Homo sapiens chromosome 21 segment HS21C0083
5582	18379		1.84	2.0E-57	AA016131.1	EST_HUMAN	ze31c05.r1 Soares retina N2b4HR Homo sapiens cDNA clone IMAGE:360584 5' similar to contains L1.f3 L1 repetitive element;
5943	18725		33.81	2.0E-57	BF115266.1	EST_HUMAN	7n80f04.x1 NCI_CGAP_Ov18 Homo sapiens cDNA clone IMAGE:3570966 3' similar to contains TAR1.1
6067	18848	31810	0.86	2.0E-57	11431281	NT	MER22 repetitive element;
8529	21221	34363	1.08	2.0E-57	AF045452.1	NT	Homo sapiens small inducible cytokine subfamily A (Cys-Cys), member 22 (SCYA22), mRNA
9746	22397	35602	1.86	2.0E-57	AF057722.1	NT	Homo sapiens cell-line KG-1 transcriptional regulatory protein p84 mRNA, complete cds
10525	23171	36398	0.49	2.0E-57	11434330	NT	Homo sapiens 17-beta-hydroxysteroid dehydrogenase IV (HSD17B4) gene, exons 3 and 4
10525	23171	36399	0.49	2.0E-57	11434330	NT	Homo sapiens KIAA1065 protein (KIAA1065), mRNA
11238	23901	37189	2.42	2.0E-57	11424084	NT	Homo sapiens KIAA1065 protein (KIAA1065), mRNA
11238	23901	37190	2.42	2.0E-57	11424084	NT	Homo sapiens hypothetical protein FLJ20041 (FLJ20041), mRNA
8593	21286		3.62	1.0E-57	BE043031.1	EST_HUMAN	h032a08.x1 NCI_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3039062 3' similar to TR:O00246 O00246
12249	24696		5.08	1.0E-57	AW470791.1	EST_HUMAN	HYPOTHETICAL 9.3 KD PROTEIN; h033d06.x1 NCI_CGAP_Kid12 Homo sapiens cDNA clone IMAGE:2875499 3' similar to contains THR.b3 THR repetitive element;

Table 4

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
5591	18387	31297	0.89	8.0E-58	AA297847.1	EST_HUMAN	EST11348 Uterus Homo sapiens cDNA 5' end
12516	24865	31015	1.55	9.0E-58	BE399061.1	EST_HUMAN	601309485F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3631000 5'
575	13355		1.76	8.0E-58	BE868715.1	EST_HUMAN	601445948F1 NIH_MGC_65 Homo sapiens cDNA clone IMAGE:3850211 5'
639	13418	26055	4.18	8.0E-58	AI798376.1	EST_HUMAN	tr34607.x1 NCL_CGAP_Ov23 Homo sapiens cDNA clone IMAGE:2220181 3' similar to TR:O16475 O15475 UNNAMED HERV-H PROTEIN ;
639	13418	26056	4.18	8.0E-58	AI798376.1	EST_HUMAN	tr34607.x1 NCL_CGAP_Ov23 Homo sapiens cDNA clone IMAGE:2220181 3' similar to TR:O15475 O15475 UNNAMED HERV-H PROTEIN ;
1849	14587	27301	2.37	8.0E-58	11434921	NT	Homo sapiens putative protein O-mannosyltransferase (POMT2), mRNA
1849	14587	27302	2.37	8.0E-58	11434921	NT	Homo sapiens putative protein O-mannosyltransferase (POMT2), mRNA
2974	15740		2.32	8.0E-58	7706132	NT	Homo sapiens DHHC1 protein (LOC51304), mRNA
10762	23446		5.87	7.0E-58	5174542	NT	Homo sapiens MADS box transcription enhancer factor 2, polypeptide B (myocyte enhancer factor 2B) (MEF2B) mRNA
10847	23529	36773	3.6	7.0E-58	AW504109.1	EST_HUMAN	UI-HF-BN0-all-g-10-0-J1.r1 NIH_MGC_50 Homo sapiens cDNA clone IMAGE:3078867 5'
10847	23529	36774	3.6	7.0E-58	AW504109.1	EST_HUMAN	UI-HF-BN0-all-g-10-0-J1.r1 NIH_MGC_50 Homo sapiens cDNA clone IMAGE:3078867 5'
2251	14979	27718	1.02	6.0E-58	BE395081.1	EST_HUMAN	601309485F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3631000 5'
2375	15097	27837	3.78	6.0E-58	AU130688.1	EST_HUMAN	AU130688 NT2RP3 Homo sapiens cDNA clone NT2RP3001263 5'
2902	15668	28316	1.2	6.0E-58	BE242150.1	EST_HUMAN	TCAAP1E1219 Pediatric acute myelogenous leukemia cell (FAB M1) Baylor-HGSC project=TCAA Homo sapiens cDNA clone TCAAP1219
2902	15668	28317	1.2	6.0E-58	BE242150.1	EST_HUMAN	TCAAP1E1219 Pediatric acute myelogenous leukemia cell (FAB M1) Baylor-HGSC project=TCAA Homo sapiens cDNA clone TCAAP1219
6078	18857	31824	1.01	6.0E-58	AF106911.1	NT	Homo sapiens chemokine MIP-2 gamma (MIP-2 gamma) mRNA, complete cds
10208	22856	36072	0.79	6.0E-58	11434746	NT	Homo sapiens protein tyrosine phosphatase, non-receptor type 21 (PTPN21), mRNA
12347	24754		1.58	6.0E-58	11526281	NT	Homo sapiens hypothetical protein FLJ20454 (FLJ20454), mRNA
293	13099	25740	3.79	5.0E-58	4507334	NT	Homo sapiens synapjanlin 1 (SYNJ1), mRNA
694	13469	26116	5.41	5.0E-58	BE763984.1	EST_HUMAN	RC4-NT0057-160600-018-b05 NT0057 Homo sapiens cDNA
1172	13926	26589	2.96	5.0E-58	AW797948.1	EST_HUMAN	CM3-UM0043-240300-127-e07 UM0043 Homo sapiens cDNA
1172	13926	26590	2.96	5.0E-58	AW797948.1	EST_HUMAN	CM3-UM0043-240300-127-e07 UM0043 Homo sapiens cDNA
1173	13926	26589	2.76	5.0E-58	AW797948.1	EST_HUMAN	CM3-UM0043-240300-127-e07 UM0043 Homo sapiens cDNA
1173	13926	26590	2.76	5.0E-58	AW797948.1	EST_HUMAN	CM3-UM0043-240300-127-e07 UM0043 Homo sapiens cDNA
3317	16077	28727	4.32	5.0E-58	AA988183.1	EST_HUMAN	or98e07.x1 NCL_CGAP_Lu5 Homo sapiens cDNA clone IMAGE:1603908 3'
4229	16970	29594	0.92	5.0E-58	AI636745.1	EST_HUMAN	ts89e07.x1 NCL_CGAP_GC6 Homo sapiens cDNA clone IMAGE:2238468 3' similar to SW:PRO2_ACACA
5541	18338		2.32	5.0E-58	11496282	NT	P19884 PROFILIN II ;
6085	18863	31829	6.86	5.0E-58	H23072.1	EST_HUMAN	Homo sapiens placenta-specific 1 (PLAC1), mRNA ym51h07.r1 Soares infant brain 1NIB Homo sapiens cDNA clone IMAGE:52071 5'

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Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
6301	19074	32060	0.95	5.0E-58	AL163285.2	NT	Homo sapiens chromosome 21 segment HS21C085
6379	19148	32147	1.61	5.0E-58	11421330	NT	Homo sapiens apical protein, Xenopus laevis-like (APXL), mRNA
6680	19597	32635	0.88	5.0E-58	AF051334.1	NT	Homo sapiens nibrin (NBS) mRNA, complete cds
6680	19597	32636	0.68	5.0E-58	AF051334.1	NT	Homo sapiens nibrin (NBS) mRNA, complete cds
7006	19698	32752	0.73	5.0E-58	4885400	NT	Homo sapiens holocytochrome c synthase (cytochrome c heme-lyase) (HCCS) mRNA
7869	20564	33691	7.69	5.0E-58	8922693	NT	Homo sapiens hypofibrin protein FLJ10826 (FLJ10826), mRNA
8251	20945	34083	0.7	5.0E-58	AB046837.1	NT	Homo sapiens mRNA for KIAA1617 protein, partial cds
8239	21918	35089	0.88	5.0E-58	5231227	NT	Homo sapiens ribonuclease 6 precursor (RNASE6PL) mRNA
8239	21918	35090	0.68	5.0E-58	5231227	NT	Homo sapiens ribonuclease 6 precursor (RNASE6PL) mRNA
9757	22408	35814	0.88	5.0E-58	11430647	NT	Homo sapiens pre-mRNA splicing factor similar to S. cerevisiae Prp18 (PRP18), mRNA
10023	22671	35887	1.78	5.0E-58	AL163218.2	NT	Homo sapiens mRNA for KIAA0611 protein, partial cds
10300	22947	36161	0.83	5.0E-58	AB014511.1	NT	Homo sapiens mRNA for KIAA0611 protein, partial cds
10300	22947	36162	0.83	5.0E-58	AB014511.1	NT	Homo sapiens mRNA for KIAA0611 protein, partial cds
11819	24405	37740	2.69	5.0E-58	11431079	NT	Homo sapiens chimerin (chimerin) 1 (CHN1), mRNA
12071	25305		1.81	5.0E-58	11526293	NT	Homo sapiens cat eye syndrome chromosome region, candidate 1 (OECR1), mRNA
12512	25330		1.5	5.0E-58	11426423	NT	Homo sapiens acetyl-Coenzyme A carboxylase alpha (ACACA), mRNA
12732	26001		2.67	5.0E-58	11418177	NT	Homo sapiens Ran GTPase activating protein 1 (RANGAP1), mRNA
364	13162	25904	4.5	4.0E-58	4502302	NT	Homo sapiens ATP synthase, H+ transporting, mitochondrial F1 complex, O subunit (oligomycin sensitivity conferring protein) (ATP5O) mRNA
779	13551	26212	0.88	4.0E-58	4504634	NT	Homo sapiens interleukin 10 receptor, beta (IL10RB), mRNA
1452	14199	28883	1.09	4.0E-58	4503648	NT	Homo sapiens coagulation factor IX (plasma thromboplastic component, Christmas disease, hemophilia B) (F9) mRNA
2637	15349	28091	1.7	4.0E-58	U36251.1	NT	Human beta-prime-adaptin (BAM22) gene, exon 3
3319	16079	28729	1.03	4.0E-58	D16470.1	NT	Human mRNA, Xq terminal portion
3723	16476	29113	1.25	4.0E-58	5031660	NT	Homo sapiens EGF-like repeats and discoidin-like domains 3 (EDIL3), mRNA
11315	23974	37275	7.06	4.0E-58	11424059	NT	Homo sapiens ETB-55kDa-associated protein 5 (ETB-AP5), mRNA
326	13127		2.57	3.0E-58	R17879.1	EST_HUMAN	yg10e02.r1 Soares infant brain 1N1B Homo sapiens cDNA clone IMAGE:31693 5'
1368	14116	26781	2.36	3.0E-58	4758981	NT	Homo sapiens peptide YY (PYY) mRNA
3174	15937	28585	2.78	3.0E-58	BF569848.1	EST_HUMAN	602185789F1 NIH_MGC_45 Homo sapiens cDNA clone IMAGE:4309943 5'
3174	15937	28586	2.78	3.0E-58	BF569848.1	EST_HUMAN	602185789F1 NIH_MGC_45 Homo sapiens cDNA clone IMAGE:4309943 5'
6167	18944	31915	0.63	3.0E-58	BE089509.1	EST_HUMAN	QV0-BT0702-170400-194409 BT0702 Homo sapiens cDNA
6352	19122	32114	1.43	3.0E-58	F07056.1	EST_HUMAN	HSC1TG081 normalized infant brain cDNA Homo sapiens cDNA clone c-11g08
6544	19309	32314	1.4	3.0E-58	AV712977.1	EST_HUMAN	AV712977 DCA Homo sapiens cDNA clone DCAAZG04 5'
919	13686	26350	11.9	2.0E-58	AF069624.1	NT	Homo sapiens 5-aminolevulinic synthase 2 (ALAS2) gene, complete cds

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
1267	14016		10	2.0E-58	BE208532.1	EST_HUMAN	ba08b07.y1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:2823733 5' similar to gb.X69391 60S RIBOSOMAL PROTEIN L8 (HUMAN); gb.X81987 M.musculus mRNA for TAX responsive element binding protein (MOUSE);
5273	25065	30708	3.4	2.0E-58	BE907186.1	EST_HUMAN	601499961F1 NIH_MGC_70 Homo sapiens cDNA clone IMAGE:3901911 5'
5273	25065	30734	3.4	2.0E-58	BE907186.1	EST_HUMAN	601499961F1 NIH_MGC_70 Homo sapiens cDNA clone IMAGE:3901911 5'
5966	18748	31709	1.12	2.0E-58	BF513488.1	EST_HUMAN	UI-H-BW1-ams-g-11-0-U1.s1 NCI_CGAP_Sub7 Homo sapiens cDNA clone IMAGE:3071060 3'
6031	18811	31771	1.88	2.0E-58	AI124874.1	EST_HUMAN	am57e02.x1 Johnston frontal cortex Homo sapiens cDNA clone IMAGE:1539674 3' similar to WP.ZK328.1 CE05065 UBIQUITIN CONJUGATING ENZYME; RECOVERIN SUBFAMILY OF EF-HAND CALCIUM BINDING PROTEIN ;
6062	18841	31803	0.8	2.0E-58	R92567.1	EST_HUMAN	yq08h06.r1 Soares fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:196379 5'
6828	19489	32511	1.12	2.0E-58	AI291407.1	EST_HUMAN	qrm84c01.x1 NCI_CGAP_Lu5 Homo sapiens cDNA clone IMAGE:1895424 3'
7056	19747	32809	2.83	2.0E-58	AF134838.1	NT	Homo sapiens endocytic receptor Endo180 (ENDO180) mRNA, complete cds
7056	19747	32810	2.83	2.0E-58	AF134838.1	NT	Homo sapiens endocytic receptor Endo180 (ENDO180) mRNA, complete cds
10841	23332	36570	21.77	2.0E-58	BF307745.1	EST_HUMAN	601808012F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:4131891 5'
10885	23565	36813	2.43	2.0E-58	AW872641.1	EST_HUMAN	hm25f08.x1 NCI_CGAP_Thy4 Homo sapiens cDNA clone IMAGE:3013671 3'
705	13480	26128	0.86	1.0E-58	M65134.1	NT	Human complement component C5 mRNA, 3'end
1046	13805	26464	2.41	1.0E-58	6274549	NT	Homo sapiens NADH dehydrogenase (ubiquinone) 1 beta subcomplex, 9 (22kD, B22) (NDUFB9), mRNA
1304	14053	26728	1.61	1.0E-58	AW957182.1	EST_HUMAN	EST3602622 MAGE resequences, MAGD Homo sapiens cDNA
1304	14053	26727	1.61	1.0E-58	AW957182.1	EST_HUMAN	EST3692522 MAGE resequences, MAGD Homo sapiens cDNA
1376	14124	26798	1.13	1.0E-58	AJ238093.1	NT	Homo sapiens partial AF-4 gene, exons 2 to 7 and Alu repeat elements
2805	15510	28251	2.37	1.0E-58	4759169	NT	Homo sapiens steroid regulatory element binding transcription factor 2 (SREBF2) mRNA
2834	14738	27462	1.6	1.0E-58	5174444	NT	Homo sapiens G protein-coupled receptor 69A (GPR69A) mRNA
3526	16282	28938	0.86	1.0E-58	4758081	NT	Homo sapiens chondrolectin sulfate proteoglycan 2 (versican) (CSPG2) mRNA
3526	16282	28939	0.88	1.0E-58	4758081	NT	Homo sapiens chondrolectin sulfate proteoglycan 2 (versican) (CSPG2) mRNA
4913	17641	30256	4.75	1.0E-58	AI141083.1	EST_HUMAN	cz43h01.x1 Soares NIHMPu_S1 Homo sapiens cDNA clone IMAGE:1678129 3'
6751	18543	31465	1.31	1.0E-58	BE081880.1	EST_HUMAN	RC1-BT0254-290100-015-e01 BT0254 Homo sapiens cDNA
6764	19508	32533	0.8	1.0E-58	11422031	NT	Homo sapiens hypothetical protein (LOC51260), mRNA
8013	20708		0.5	1.0E-58	AW973537.1	EST_HUMAN	EST385637 MAGE resequences, MAGM Homo sapiens cDNA
8768	21460	34609	0.66	1.0E-58	4505914	NT	Homo sapiens myomesin (M-protein) 2 (165kD) (MYOM2), mRNA
8880	21571	34714	0.91	1.0E-58	AV751001.1	EST_HUMAN	AV751001 NPC Homo sapiens cDNA clone NPCACH09 5'
8979	21669	34818	0.66	1.0E-58	AA412397.1	EST_HUMAN	z89f05.r1 Soares testis NHT Homo sapiens cDNA clone IMAGE:730497 5'
8979	21669	34819	0.66	1.0E-58	AA412397.1	EST_HUMAN	z89f05.r1 Soares testis NHT Homo sapiens cDNA clone IMAGE:730497 5'
10086	22734	35949	1.21	1.0E-58	11432994	NT	Homo sapiens discs, large (Drosophila) homolog 2 (chapsyn-110) (DLG2), mRNA

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Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
11780	24371		2.11	1.0E-58	X63392.1	NT	H.sapiens immunoglobulin kappa light chain variable region L14
11816	24404	37739	1.57	1.0E-58	D81405.1	NT	Human MSH3 gene, exon10
2225	14953	27691	28.49	8.0E-59	4507378	NT	Homo sapiens TATA box binding protein (TBP) mRNA
8080	20774	33904	2.49	8.0E-59	A1761963.1	EST_HUMAN	wh50d06.x1 NCI_OGAP_Kid11 Homo sapiens cDNA clone IMAGE:2384171 3'
173	15536		1.74	6.0E-59	BF035327.1	EST_HUMAN	601458531F1 NIH_MGC_66 Homo sapiens cDNA clone IMAGE:3862086 5'
8144	20838	33970	0.61	6.0E-59	A1750970.1	EST_HUMAN	cn06h02.y1 Normal Human Trabecular Bone Cells Homo sapiens cDNA clone NHTBC_cn06h02 random
1748	14490	27189	1.32	5.0E-59	AW157281.1	EST_HUMAN	au93h05.x1 Schneider fetal brain 00004 Homo sapiens cDNA clone IMAGE:2783865 3' similar to
1748	14490	27190	1.32	6.0E-59	AW157281.1	EST_HUMAN	TR:075786 075786 GANGLIOSIDE-INDUCED DIFFERENTIATION ASSOCIATED PROTEIN 1.;
3124	15889	28530	6.98	5.0E-59	A1807484.1	EST_HUMAN	au93h05.x1 Schneider fetal brain 00004 Homo sapiens cDNA clone IMAGE:2783865 3' similar to
4610	17345	26978	6.55	5.0E-59	X83497.1	NT	TR:075786 075786 GANGLIOSIDE-INDUCED DIFFERENTIATION ASSOCIATED PROTEIN 1.;
6892	17968	30526	7.5	5.0E-59	AW162304.1	EST_HUMAN	wf48c11.x1 Scores_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2358836 3'
8705	21397	34544	1.04	5.0E-59	11421778	NT	H.sapiens DNA for ZNF80-linked ERV9 long terminal repeat
9604	22257	36443	1.62	5.0E-59	AV762869.1	EST_HUMAN	au68c07.x1 Schneider fetal brain 00004 Homo sapiens cDNA clone IMAGE:2781228 3' similar to contains
10823	23506	36745	3.78	5.0E-59	11434908	NT	element TAR1 repetitive element
776	13548	26210	1.56	4.0E-59	D80006.1	NT	Homo sapiens polymerase (RNA) III (DNA directed) (99kD) (RPC39), mRNA
5450	18249	31138	1.03	4.0E-59	11034810	NT	AV762869 MDS Homo sapiens cDNA clone MDSEIC12 5'
12203	25238		1.91	4.0E-59	AF057720.1	NT	Homo sapiens hypothetical protein (LOC57143), mRNA
9	12836		6.13	3.0E-59	AW965524.1	EST_HUMAN	Human mRNA for KIAA0184 gene, partial cds
219	13030	25666	4.58	3.0E-59	7682247	NT	Homo sapiens catenin (cadherin-associated protein), delta 2 (neural plakophilin-related arm-repeat protein) (CTNND2), mRNA
1705	14448	27147	8.2	3.0E-59	4505860	NT	Homo sapiens 17-beta-hydroxysteroid dehydrogenase IV (HSD17B4) gene, promoter region and exon 1
1705	14448	27148	8.2	3.0E-59	4505860	NT	EST377582 MAGI ressequences, MAGI Homo sapiens cDNA
2125	14856	27585	5.59	3.0E-59	AB029035.1	NT	Homo sapiens KIAA0680 gene product (KIAA0680), mRNA
2125	14856	27586	5.59	3.0E-59	AB029035.1	NT	Homo sapiens plasminogen activator, tissue (PLATa) mRNA
3126	16891	28534	3.77	3.0E-59	4502014	NT	Homo sapiens plasminogen activator, tissue (PLATa) mRNA
3126	16891	28535	3.77	3.0E-59	4502014	NT	Homo sapiens mRNA for KIAA1112 protein, partial cds
3805	16557	29189	1.45	3.0E-59	4508044	NT	Homo sapiens mRNA for KIAA1112 protein, partial cds
4638	17372	30007	0.88	3.0E-59	AL163284.2	NT	Homo sapiens A kinase (PRKA) anchor protein 1 (AKAP1), mRNA
4738	17470	30107	0.92	3.0E-59	4759329	NT	Homo sapiens A kinase (PRKA) anchor protein 1 (AKAP1), mRNA

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Table 4
Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
4789	17520	30143	1.57	3.0E-59	7427522	NT	Homo sapiens protein tyrosine phosphatase, receptor type, T (PTPR1), mRNA
4990	17713		0.97	3.0E-59	M95981.1	NT	Human prothrombin converting enzyme (NEC2) gene, exon 2
6126	18904	31872	2.12	3.0E-59	8924074	NT	Homo sapiens hypothetical protein PRO1741 (PRO1741), mRNA
7259	18943	33020	1.94	3.0E-59	5454137	NT	Homo sapiens nuclear receptor co-repressor 1 (NCOR1), mRNA
7832	20527	33653	1.16	3.0E-59	X12558.1	NT	Human mRNA for dbi proto-oncogene
7832	20527	33654	1.16	3.0E-59	X12556.1	NT	Human mRNA for dbi proto-oncogene
9844	22592	35794	0.87	3.0E-59	X70251.1	NT	H. sapiens CKII-alpha gene
9844	22592	35795	0.87	3.0E-59	X70251.1	NT	H. sapiens CKII-alpha gene
12327	24748		6.04	3.0E-59	11417898	NT	Homo sapiens gamma-glutamyltransferase-like activity 1 (GGT1A), mRNA
7683	20357		0.71	2.0E-59	BF373328.1	EST_HUMAN	MRO-FT0144-250700-002-a10 FT0144 Homo sapiens cDNA
9537	22190		6.32	2.0E-59	AA309774.1	EST_HUMAN	EST180633 Jurkat T-cells V Homo sapiens cDNA 5' end
10425	23071		1.19	2.0E-59	BF365554.1	EST_HUMAN	RCO-NT0036-100700-032-a07 NT0036 Homo sapiens cDNA
10734	23421	36663	2.6	2.0E-59	AW410698.1	EST_HUMAN	th07h04.x1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:2961654 5'
10734	23421	36664	2.6	2.0E-59	AW410698.1	EST_HUMAN	th07h04.x1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:2961654 5'
11311	23970	37274	1.31	2.0E-59	H61604.1	EST_HUMAN	y49h09.r1 Scores fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:208673 5' similar to SP:POL_FENV1 P31792 POL YPROTEIN;
12091	24595	31126	2.93	2.0E-59	A1631809.1	EST_HUMAN	wa36c12.x1 NCI_CGAP_Kid11 Homo sapiens cDNA clone IMAGE:2300182 3' similar to TR:Q86542
12605	25263	30719	4.85	2.0E-59	L11645.1	NT	Q86542 RTVL-H PROTEIN, contains LTR7.b1 LTR7 repetitive element;
159	12974		3.03	1.0E-59	BE266411.1	EST_HUMAN	Homo sapiens alpha-tubulin mRNA, complete cds
1529	14276	26964	0.93	1.0E-59	T92522.1	EST_HUMAN	601176757F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:3531927 5'
2412	15133	27870	1.19	1.0E-59	D11456.2	NT	ye25c09 r1 Stragene lung (#837210) Homo sapiens cDNA clone IMAGE:118788 5' similar to SP:S21348
2412	15133	27871	1.19	1.0E-59	D11456.2	NT	S21348 HYPOTHETICAL PROTEIN 4 -;
2623	15335		2.47	1.0E-59	AA748488.1	EST_HUMAN	Homo sapiens Xdha mRNA for xanthine dehydrogenase, complete cds
7462	20135	33227	1.08	1.0E-59	AJ130894.1	NT	Homo sapiens Xdha mRNA for xanthine dehydrogenase, complete cds
7617	20283	33392	0.97	1.0E-59	BE256814.1	EST_HUMAN	ca56h11.s1 NCI_CGAP_GCB1 Homo sapiens cDNA clone IMAGE:1309029 3' similar to TR:Q13537
7617	20283	33393	0.97	1.0E-59	BE256814.1	EST_HUMAN	Q13537 MER37 TRANSCRIPTABLE ELEMENT, COMPLETE CONSENSUS SEQUENCE.;
9285	22039	35210	0.98	1.0E-59	11419630	NT	Homo sapiens mRNA for transcription factor
9504	22157	35337	0.54	1.0E-59	11428849	NT	601111951F1 NIH_MGC_16 Homo sapiens cDNA clone IMAGE:332692 5'
9504	22157	35338	0.54	1.0E-59	11428849	NT	601111951F1 NIH_MGC_16 Homo sapiens cDNA clone IMAGE:332692 5'
10760	20135	33227	12.88	1.0E-59	AJ130894.1	NT	Homo sapiens zinc finger protein 275 (ZNF275), mRNA
747	13520	26178	0.85	8.0E-50	AW977845.1	EST_HUMAN	Homo sapiens 3-hydroxyisobutyl-Coenzyme A hydrolase (HIBCH), mRNA
							Homo sapiens mRNA for transcription factor
							EST T389849 IMAGE resequences, MAGO Homo sapiens cDNA

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
1455	14202	26896	2.65	8.0E-60	4759169	NT	Homo sapiens small nuclear ribonucleoprotein D3 polypeptide (18kD) (SNRPD3) mRNA
2169	14898	27632	3.8	8.0E-60	5174656	NT	Homo sapiens differentiation-related gene 1 (nickel-specific induction protein) (RTP) mRNA
2169	14898	27633	3.8	8.0E-60	5174656	NT	Homo sapiens differentiation-related gene 1 (nickel-specific induction protein) (RTP) mRNA
5892	18677	31623	1.12	8.0E-60	AB029004.1	NT	Homo sapiens mRNA for KIAA1081 protein, partial cds
6411	19179	32178	1.07	8.0E-60	S83182.1	NT	hyaluronan-binding protein=hepatocyte growth factor activator homolog [human, plasma, mRNA, 2408 nt]
7596	20264	33372	1.07	8.0E-60	11420841	NT	Homo sapiens phosphate cytidylyltransferase 1, choline, beta isoform (PCYT1B), mRNA
7865	20560	33667	2.28	8.0E-60	X17033.1	NT	Human mRNA for Integrin alpha-2 subunit
8837	21529	34675	2.6	8.0E-60	11428949	NT	Homo sapiens S-antigen; retina and pineal gland (arrestin) (SAG), mRNA
8371	21948	35118	0.98	8.0E-60	11417118	NT	Homo sapiens KIAA0433 protein (KIAA0433), mRNA
9371	21948	35119	0.98	8.0E-60	11417118	NT	Homo sapiens KIAA0433 protein (KIAA0433), mRNA
10473	23119	36348	0.59	8.0E-60	5453987	NT	Homo sapiens RAN binding protein 7 (RANBP7), mRNA
10736	23423	36666	6.36	8.0E-60	AL163204.2	NT	Homo sapiens chromosome 21 segment HS21C004
10736	23423	36667	6.36	8.0E-60	AL163204.2	NT	Homo sapiens chromosome 21 segment HS21C004
737	13511	26169	3.61	7.0E-60	AF055066.1	NT	Homo sapiens MHC class 1 region
738	13511	26169	17.82	7.0E-60	AF055066.1	NT	Homo sapiens MHC class 1 region
796	13568	26228	0.98	7.0E-60	4504634	NT	Homo sapiens interleukin 10 receptor, beta (IL10RB), mRNA
2124	14855	27584	1.08	7.0E-60	AF077188.1	NT	Homo sapiens cullin 4A (CUL4A) mRNA, complete cds
2788	15493	28233	1.53	7.0E-60	AB011153.1	NT	Homo sapiens mRNA for KIAA0581 protein, partial cds
4158	18898	29527	2.56	7.0E-60	4505488	NT	Homo sapiens ornithine decarboxylase 1 (ODC1) mRNA
9307	21974	35149	4.02	7.0E-60	H58041.1	EST_HUMAN	Y1204.1 Soares fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:205087 5' similar to contains LTR5 repetitive element
11337	24027	37331	2.11	7.0E-60	H58041.1	EST_HUMAN	Y1204.1 Soares fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:205087 5' similar to contains LTR5 repetitive element
2177	14906	27639	1.06	6.0E-60	BE964974.2	EST_HUMAN	601658751R1 NIH_MGC_69 Homo sapiens cDNA clone IMAGE:3886069 3'
8336	21029		10.5	6.0E-60	H52456.1	EST_HUMAN	Y178h09.r1 Soares fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:201863 5' similar to contains OFR repetitive element
82	12908	25545	2.29	5.0E-60	A1807917.1	EST_HUMAN	wf52c07.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2359212 3'
82	12908	25546	2.29	5.0E-60	A1807917.1	EST_HUMAN	wf52c07.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2359212 3'
2972	15738		1.27	4.0E-60	AA289037.1	EST_HUMAN	EST11498 Uterus Homo sapiens cDNA 5' end similar to similar to retrovirus-related pol
7253	19937	33012	0.89	4.0E-60	BF196068.1	EST_HUMAN	h8105.x1 NCI_CGAP_Kid11 Homo sapiens cDNA clone IMAGE:3134913 3' similar to SW:RHOP_MOUSE
9024	21714		0.68	4.0E-60	AL163278.2	NT	Q61085 GTP-RHO BINDING PROTEIN 1
11287	23929	37219	1.29	4.0E-60	11433597	NT	Homo sapiens v-rif-1 murine leukemia viral oncogene homolog 1 (RAF1), mRNA

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Single Exon Probes Expressed In Brain

Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
11267	23929	37220	1.29	4.0E-60	11433597	NT	Homo sapiens v-raf-1 murine leukemia viral oncogene homolog 1 (RAF-1), mRNA
1852	14590	27305	4.44	3.0E-60	BE562611.1	EST_HUMAN	601336446F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3690395 5'
1852	14590	27306	4.44	3.0E-60	BE562611.1	EST_HUMAN	601336446F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3690395 5'
1862	14600		1.92	3.0E-60	6031190	NT	Homo sapiens profilin (PHB) mRNA
4424	17160	29790	1.94	3.0E-60	AJ271735.1	NT	Homo sapiens Xq pseudautosomal region: segment 1/2
5294	18099	30758	0.57	3.0E-60	BF365143.1	EST_HUMAN	QV4-NN1149-250900-423-f01 NN1149 Homo sapiens cDNA
5554	18351	31260	2.12	3.0E-60	AW836196.1	EST_HUMAN	RC3-LT0023-200100-012-a01 LT0023 Homo sapiens cDNA
6856	17933	30569	1	3.0E-60	A1792814.1	EST_HUMAN	cl60h11.v5 NCI CGAP_Kid3 Homo sapiens cDNA clone IMAGE:1534053 5' similar to SW:UDP_MOUSE
8301	20995	34132	4.97	3.0E-60	5174644	NT	P52624 URIDINE PHOSPHORYLASE;
8301	20995	34133	4.97	3.0E-60	5174644	NT	Homo sapiens proline dehydrogenase (proline oxidase) (PRODH) mRNA
8482	21174	34319	0.51	3.0E-60	A1040235.1	EST_HUMAN	ox56d09.x1 Soares NIHMPu_S1 Homo sapiens cDNA clone IMAGE:1660337 3' similar to SW:FORM_MOUSE Q05860 FORMIN;
8641	21333	34477	4.32	3.0E-60	5174644	NT	Homo sapiens proline dehydrogenase (proline oxidase) (PRODH) mRNA
9559	2212	35398	0.47	3.0E-60	BF102612.1	EST_HUMAN	601646227F1 NIH_MGC_60 Homo sapiens cDNA clone IMAGE:3690990 5'
11182	23829	37107	1.26	3.0E-60	11427120	NT	Homo sapiens CGI-152 protein (LOC57130), mRNA
11162	23829	37108	1.26	3.0E-60	11427120	NT	Homo sapiens CGI-152 protein (LOC57130), mRNA
12686	25297		2.06	3.0E-60	AA485286.1	EST_HUMAN	ab07h04.r1 Stratagene lung (#937210) Homo sapiens cDNA clone IMAGE:840151 5' similar to contains LTR10.1 LTR10 repetitive element;
29	12857	25474	3.63	2.0E-60	AY008285.1	NT	Homo sapiens solute carrier (SLC25A18) mRNA, complete cds; nuclear gene for mitochondrial product
1404	14151	26831	7.35	2.0E-60	Z11694.1	NT	H. sapiens 41kDa protein kinase related to rat ERK2
1715	14458	27155	1.29	2.0E-60	M24603.1	NT	Human bcr protein mRNA, 5' end
1724	14467	27166	1.59	2.0E-60	AY008285.1	NT	Homo sapiens solute carrier (SLC25A18) mRNA, complete cds; nuclear gene for mitochondrial product
2714	15421	28160	1.96	2.0E-60	AW978005.1	EST_HUMAN	EST390114 IMAGE resequences, MAGO Homo sapiens cDNA
3566	16321	28969	0.69	2.0E-60	4757667	NT	Homo sapiens v-raf murine sarcoma viral oncogene homolog B1 (BRAF) mRNA
3895	16645	29285	0.73	2.0E-60	AF231919.1	NT	Homo sapiens chromosome 21 unknown mRNA
6208	18993	31962	0.86	2.0E-60	A1791952.1	EST_HUMAN	m01f12.v5 NCI CGAP_Co9 Homo sapiens cDNA clone IMAGE:1076495 5' similar to contains THR.1 THR repetitive element;
6400	19169	32169	1.87	2.0E-60	A1004877.1	NT	Homo sapiens pro-alpha 2(I) collagen (COL1A2) gene, complete cds
6615	19378	32393	0.96	2.0E-60	AF157476.1	NT	Homo sapiens DNA polymerase zeta catalytic subunit (REV3) mRNA, complete cds
6750	17919	30593	2.43	2.0E-60	4503044	NT	Homo sapiens corticotropin releasing hormone receptor 2 (CRHR2) mRNA
6750	17919	30584	2.43	2.0E-60	4503044	NT	Homo sapiens corticotropin releasing hormone receptor 2 (CRHR2) mRNA

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
7010	19702	32757	2.73	2.0E-60	AA311159.1	EST_HUMAN	EST181949 Jurkat T-cells V Homo sapiens cDNA 5' end similar to similar to prothymosin, alpha
7010	19702	32758	2.73	2.0E-60	AA311159.1	EST_HUMAN	EST181949 Jurkat T-cells V Homo sapiens cDNA 5' end similar to similar to prothymosin, alpha
7124	19812	32880	0.59	2.0E-60	AI308124.1	EST_HUMAN	Q62805 GALANIN RECEPTOR ;
7652	20202	BF512808.1	0.79	2.0E-60	BF512808.1	EST_HUMAN	UIH-BW1-aru-c-02-0-UI:sl NCI CGAP Sub7 Homo sapiens cDNA clone IMAGE:3071210 3'
7904	20599	33729	0.84	2.0E-60	X85597.1	EST_HUMAN	HS15BEST human adult testis Homo sapiens cDNA clone CAM TEST15
8768	21458	34608	3.01	2.0E-60	L36033.1	NT	Human pre-B cell stimulating factor homologue (SDF1b) mRNA, complete cds
9878	22528	35724	2.29	2.0E-60	11991659	NT	Homo sapiens sema domain, transmembrane domain (TM), and cytoplasmic domain, (semaphorin) 6A (SEMA6A), mRNA
9878	22528	35725	2.29	2.0E-60	11991659	NT	Homo sapiens sema domain, transmembrane domain (TM), and cytoplasmic domain, (semaphorin) 6A (SEMA6A), mRNA
11449	23218	36448	1.53	2.0E-60	11434729	NT	Homo sapiens ribosomal protein S6 kinase, 90kD, polypeptide 5 (RPS6KA5), mRNA
11809	24398	37732	1.8	2.0E-60	BF530674.1	EST_HUMAN	602071973F1 NCI CGAP Bn67 Homo sapiens cDNA clone IMAGE:4214683 5'
11809	24398	37733	1.8	2.0E-60	BF530674.1	EST_HUMAN	602071973F1 NCI CGAP Bn67 Homo sapiens cDNA clone IMAGE:4214683 5'
12364	24767		3.02	2.0E-60	11418192	NT	Homo sapiens non-histone chromosome protein 2 (S. cerevisiae)-like 1 (NHP2L1), mRNA
12494	25228		1.93	2.0E-60	AF088797.1	NT	Homo sapiens somatostatin receptor subtype 3 (SS1R3) gene, 5' flanking region and partial cds
12498	24851		2.34	2.0E-60	11418088	NT	Homo sapiens similar to HSPC022 protein (H. sapiens) (LOC63504), mRNA
12510	24862		1.77	2.0E-60	AB011399.1	NT	Homo sapiens gene for AF-6, complete cds
509	13293	25925	1.13	1.0E-60	BE178586.1	EST_HUMAN	PM3-HT0605-270200-001-406 HT0605 Homo sapiens cDNA
3882	16632	29271	1.16	1.0E-60	AU143389.1	EST_HUMAN	AU143389 Y79AA1 Homo sapiens cDNA clone Y79AA1001854 5'
4901	17628	30245	1.2	1.0E-60	AL163285.2	NT	Homo sapiens chromosome 21 segment HS21C085
7948	20543	33671	0.91	1.0E-60	BE064410.1	EST_HUMAN	RC4-BT0311-141199-011-H06 BT0311 Homo sapiens cDNA
8653	21345		3.46	1.0E-60	AA244041.1	EST_HUMAN	nc04612.1 NCI CGAP_P1 Homo sapiens cDNA clone IMAGE:1007182 similar to contains L1.1t L1 repetitive element ;
8681	21373	34517	1.41	1.0E-60	AV754081.1	EST_HUMAN	AV754081 TP Homo sapiens cDNA clone TPGAED05 5'
1077	13835	28493	2.21	9.0E-61	AU119344.1	EST_HUMAN	AU119344 HEMBA1 Homo sapiens cDNA clone HEMBA1005583 5'
2676	15385	28128	1.16	8.0E-61	AW000478.1	EST_HUMAN	w05b10.x1 NCI CGAP Cc3 Homo sapiens cDNA clone IMAGE:2506555 3'
2676	15385	28127	1.16	8.0E-61	AW000478.1	EST_HUMAN	w05b10.x1 NCI CGAP Cc3 Homo sapiens cDNA clone IMAGE:2506555 3'
2951	15717		1.53	8.0E-61	X57147.1	NT	Human endogenous retrovirus pHE.1 (ERV9)
7796	20491	33614	1.05	8.0E-61	AA583968.1	EST_HUMAN	nn58g06.s1 NCI CGAP_Lar1 Homo sapiens cDNA clone IMAGE:1088218 3'
124	12941	25583	1.97	7.0E-61	7706670	NT	Homo sapiens PXR2b protein (PXR2b), mRNA
124	12941	25584	1.97	7.0E-61	7706670	NT	Homo sapiens PXR2b protein (PXR2b), mRNA
125	12941	25583	2.38	7.0E-61	7706670	NT	Homo sapiens PXR2b protein (PXR2b), mRNA
125	12941	25584	2.38	7.0E-61	7706670	NT	Homo sapiens PXR2b protein (PXR2b), mRNA

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
5034	12941	25583	1.04	7.0E-61	7706870	NT	Homo sapiens PXR2b protein (PXR2b), mRNA
5034	12941	25584	1.04	7.0E-61	7706870	NT	Homo sapiens PXR2b protein (PXR2b), mRNA
259	13067	25705	2.95	6.0E-61	BE409310.1	EST_HUMAN	601300938F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3635480 5'
793	13965	26226	1.62	6.0E-61	BE409310.1	EST_HUMAN	601300938F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3635480 5'
1298	14047	26719	15	6.0E-61	AF119880.1	NT	Homo sapiens PRO2014 mRNA, complete cds
1626	14372	27061	0.97	6.0E-61	BE257400.1	EST_HUMAN	601109238F1 NIH_MGC_16 Homo sapiens cDNA clone IMAGE:3350145 5'
1643	14389	27078	2.63	6.0E-61	AA596033.1	EST_HUMAN	m66h09.s1 NCI_CGAP_Lar1 Homo sapiens cDNA clone IMAGE:1088897 3'
2123	14854	27583	1.58	6.0E-61	AY008285.1	NT	Homo sapiens solute carrier (SLC25A18) mRNA, complete cds; nuclear gene for mitochondrial product
3301	16063	28711	9.37	6.0E-61	AU130689.1	EST_HUMAN	AU130689 NT2RP3 Homo sapiens cDNA clone NT2RP3001283 5'
5941	18723	31682	3.37	6.0E-61	S79249.1	NT	ig-beta/B29=CD79b [alternatively spliced] [human, B cells, mRNA Partial, 375 nt]
7242	19927	33003	1.82	6.0E-61	U24498.1	NT	Human autosomal dominant polycystic kidney disease protein 1 (PKD1) gene
7518	20189	33282	1.67	6.0E-61	AF035737.1	NT	Homo sapiens general transcription factor 2-1 (GTF2I) mRNA, complete cds
11474	24075	37384	1.35	6.0E-61	AF090386.1	NT	Homo sapiens napsin A mRNA, complete cds
11474	24075	37385	1.35	6.0E-61	AF090386.1	NT	Homo sapiens napsin A mRNA, complete cds
12265	13565	26226	1.62	6.0E-61	BE409310.1	EST_HUMAN	601300938F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3635480 5'
350	13149	25789	1.73	5.0E-61	4507500	NT	Homo sapiens T-cell lymphoma invasion and metastasis 1 (TIAM1) mRNA
1674	14419	27112	2.22	5.0E-61	4508008	NT	Homo sapiens protein phosphatase 1, regulatory subunit 10 (PPP1R10) mRNA
3032	15798	28444	2.56	5.0E-61	AL163279.2	NT	Homo sapiens chromosome 21 segment HS21C079
3193	15956	28608	3.27	5.0E-61	4502166	NT	Homo sapiens amyloid beta (A4) precursor protein (protease nexin-II, Alzheimer disease) (APP), mRNA
3963	16712		1.78	5.0E-61	AJ229041.1	NT	Homo sapiens 959 kb contig between AML1 and CBR1 on chromosome 21q22; segment 1/3
4941	13149	25789	1.07	5.0E-61	4507500	NT	Homo sapiens T-cell lymphoma invasion and metastasis 1 (TIAM1) mRNA
5080	17799	30416	3.38	5.0E-61	4502286	NT	Homo sapiens ATPase, Ca++ transporting, plasma membrane 1 (ATP2B1) mRNA
5725	18517	31438	0.87	4.0E-61	7661637	NT	Homo sapiens DKF ZP566B023 protein (DKF ZP566B023), mRNA
12068	24582		3.51	4.0E-61	AV731140.1	EST_HUMAN	AV731140 HTF Homo sapiens cDNA clone HTFARB01 5'
8320	21013	34151	0.69	3.0E-61	AF150190.1	EST_HUMAN	AF150190 Human mRNA from cd34+ stem cells Homo sapiens cDNA clone CBDAGB04
8596	21288	34427	0.64	3.0E-61	AA301233.1	EST_HUMAN	EST14323 Testis tumor Homo sapiens cDNA 5' end
8596	21288	34428	0.64	3.0E-61	AA301233.1	EST_HUMAN	EST14323 Testis tumor Homo sapiens cDNA 5' end
488	13271	25906	1.52	2.0E-61	8822829	NT	Homo sapiens hypothetical protein FLJ11026 (FLJ11026), mRNA
1190	13942	26607	0.82	2.0E-61	BE168410.1	EST_HUMAN	QV3-HT0513-060400-147-d01 HT0513 Homo sapiens cDNA
1190	13942	26608	0.82	2.0E-61	BE168410.1	EST_HUMAN	QV3-HT0513-060400-147-d01 HT0513 Homo sapiens cDNA
1680	14406	27097	1	2.0E-61	N53039.1	EST_HUMAN	yw53d11.s1 Soares fetal liver spleen 1NLS Homo sapiens cDNA clone IMAGE:248453 3' similar to gbL25444 60S RIBOSOMAL PROTEIN L35a (HUMAN);

Table 4

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Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
2647	15357		1.04	2.0E-61	N39397.1	EST_HUMAN	Y03111.1 Soares melanocyte 2Nbl-HM Homo sapiens cDNA clone IMAGE:270189 5'
6332	19102	32090	0.98	2.0E-61	11428168	NT	Homo sapiens ATPase, H ⁺ transporting, lysosomal (vacuolar proton pump) non-catalytic accessory protein 1A (110/116kD) (ATP6N1A), mRNA
8913	21604	34748	0.98	2.0E-61	AV694317.1	EST_HUMAN	AV694317 GKC Homo sapiens cDNA clone GKCELG06 5'
9462	22012		0.99	2.0E-61	AB011108.1	NT	Homo sapiens mRNA for KIAA0536 protein, partial cds
9822	22473	35876	1.67	2.0E-61	AW500266.1	EST_HUMAN	UI-HF-BN0-akd-f-12-0-UI.s1 NIH_MGC_50 Homo sapiens cDNA clone IMAGE:3078774 5'
10150	22768	36014	2.3	2.0E-61	11421778	NT	Homo sapiens polymerase (RNA) III (DNA directed) (39kD) (RPC39), mRNA
10799	23482		1.81	2.0E-61	11419729	NT	Homo sapiens ribosomal protein L44 (RPL44), mRNA
756	13528	26188	1.11	1.0E-61	5453829	NT	Homo sapiens origin recognition complex, subunit 2 (yeast homolog) like (ORC2L), mRNA
1851	14589	27304	3.71	1.0E-61	6005983	NT	Homo sapiens zona pellucida glycoprotein 3A (sperm receptor) (ZP3A), mRNA
2193	14922	27656	1.42	1.0E-61	AW827281.1	EST_HUMAN	xn11b09.y1 NCI_CGAP_Lj5 Homo sapiens cDNA clone IMAGE:2693369 5' similar to contains element
2839	15607	28257	1.47	1.0E-61	BE386363.1	EST_HUMAN	MSR1 repetitive element;
3369	16128	28786	0.86	1.0E-61	7682319	NT	601273513F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:3614687 5'
3715	16468	29105	1.2	1.0E-61	BE174455.1	EST_HUMAN	QV2-HT0577-140300-077-g06 HT0577 Homo sapiens cDNA
4407	17144	29773	0.81	1.0E-61	4759249	NT	Homo sapiens TRAF family member-associated NFKB activator (TANK) mRNA
4407	17144	29774	0.81	1.0E-61	4759249	NT	Homo sapiens TRAF family member-associated NFKB activator (TANK) mRNA
4804	17535	30157	8.11	1.0E-61	AW298181.1	EST_HUMAN	UI-H-BW0-ajl-b-08-0-UI.s1 NCI_CGAP_Sub6 Homo sapiens cDNA clone IMAGE:2732871 3'
4804	17535	30158	8.11	1.0E-61	AW298181.1	EST_HUMAN	UI-H-BW0-ajl-b-08-0-UI.s1 NCI_CGAP_Sub6 Homo sapiens cDNA clone IMAGE:2732871 3'
4905	17632	30247	0.75	1.0E-61	AL163210.2	NT	Homo sapiens chromosome 21 segment HS21C010
5309	18114	30772	1.62	1.0E-61	M76423.1	NT	H sapiens carbonic anhydrase VII (CA VII) gene, exons 4,5,6, and 7, and complete cds
5803	18398	31310	0.79	1.0E-61	7682303	NT	Homo sapiens KIAA0783 gene product (KIAA0783), mRNA
5793	18584	31511	1.29	1.0E-61	11416891	NT	Homo sapiens survival of motor neuron 1, telomeric (SMN1), mRNA
6800	19461	32482	7.11	1.0E-61	M30135.1	NT	Human P40 T-cell and mast cell growth factor (hP40) gene, complete cds
6991	19884	32732	0.67	1.0E-61	4759171	NT	Homo sapiens SC35-interacting protein 1 (SRRP128), mRNA
7091	19780	32945	1.42	1.0E-61	8923130	NT	Homo sapiens hypothetical protein FLJ20128 (FLJ20128), mRNA
7091	19780	32946	1.42	1.0E-61	8923130	NT	Homo sapiens hypothetical protein FLJ20128 (FLJ20128), mRNA
8033	20728	33861	3	1.0E-61	11034940	NT	Homo sapiens growth hormone releasing hormone (GHRH), mRNA
8212	20906	34041	3.06	1.0E-61	AF224669.1	NT	Homo sapiens mannosidase, beta A, lysosomal (MANBA) gene, and ubiquitin-conjugating enzyme E2D 3 (UBE2D3) genes, complete cds
9182	21852		2.7	1.0E-61	AW999726.1	EST_HUMAN	MR0-BN0070-040400-010-h01 BN0070 Homo sapiens cDNA
9257	21836	35110	7.73	1.0E-61	11416280	NT	Homo sapiens cadherin 18 (CDH18), mRNA
9928	22576	35775	5.24	1.0E-61	11428892	NT	Homo sapiens KIAA0971 protein (KIAA0971), mRNA
10531	23228	36462	2.84	1.0E-61	11425578	NT	Homo sapiens actinin, alpha 4 (ACTN4), mRNA

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Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
10855	23535	36780	1.49	1.0E-61	AB044550.1	NT	Homo sapiens P/Okl.19 mRNA for ubiquitin-conjugating enzyme E2, complete cds
11006	23678	36935	1.53	1.0E-61	AB007830.1	NT	Homo sapiens mRNA for CSR2, complete cds
12007	25273	30726	3.02	1.0E-61	11430460	NT	Homo sapiens low density lipoprotein-related protein 2 (LRP2), mRNA
12007	25273	30727	3.02	1.0E-61	11430460	NT	Homo sapiens low density lipoprotein-related protein 2 (LRP2), mRNA
12659	24959	30998	11.56	1.0E-61	11416127	NT	Homo sapiens GTP binding protein 1 (GTPBP1), mRNA
10255	22803	36113	1.45	9.0E-62	BE064366.1	EST_HUMAN	RC4-BT0310-110300-015-f10 BT0310 Homo sapiens cDNA
4514	17249	29885	1.1	8.0E-62	AA830420.1	EST_HUMAN	cc66h11.s1 NCI_CGAP_GCB1 Homo sapiens cDNA clone IMAGE:1354725 3' similar to SW:POL_MLVK
1085	13843	26501	1.62	7.0E-62	AV714334.1	EST_HUMAN	P31795 POL POLYPYRROLINE ;
3497	19253	28907	0.74	7.0E-62	P17480	SWISSPROT	NUCLEOLAR TRANSCRIPTION FACTOR 1 (UPSTREAM BINDING FACTOR 1) (UBF-1)
5826	18615	31547	0.84	7.0E-62	11427965	NT	(AUTOANTIGEN NOR-90)
11323	24014	37317	7.1	7.0E-62	AI206981.1	EST_HUMAN	Homo sapiens hypothetical protein (FLJ20261), mRNA
2988	15764		1.42	6.0E-62	U09410.1	NT	qg56a04.x1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:1839150 3' similar to TR:O15103
3379	16138		4.1	6.0E-62	11418256	NT	O15103 HYPOTHETICAL 27.3 KD PROTEIN ;
7525	20186	33289	3.03	6.0E-62	A1762801.1	EST_HUMAN	Human zinc finger protein ZNF131 mRNA, partial cds
7525	20186	33260	3.03	6.0E-62	A1762801.1	EST_HUMAN	Homo sapiens CGI-56 protein (CGI-56), mRNA
7984	20679		0.72	6.0E-62	AW501124.1	EST_HUMAN	wf04d02.x1 NCI_CGAP_CLL1 Homo sapiens cDNA clone IMAGE:2389251 3'
8155	20849	33981	1.45	6.0E-62	11431139	NT	wf04d02.x1 NCI_CGAP_CLL1 Homo sapiens cDNA clone IMAGE:2389251 3'
9254	21933	35108	3.27	6.0E-62	AW814393.1	EST_HUMAN	U1-HF-BP0p-alk-d-09-Q-U1 NIH_MGC_51 Homo sapiens cDNA clone IMAGE:3072833 5'
407	13192	25840	2.8	5.0E-62	A1950528.1	EST_HUMAN	Homo sapiens CGI-18 protein (LOC51008), mRNA
2406	15127	27863	4.25	5.0E-62	AJ271735.1	NT	MR3-ST0203-130100-025-a09 ST0203 Homo sapiens cDNA
2406	15127	27864	4.25	5.0E-62	AJ271735.1	NT	wx51e07.x1 NCI_CGAP_Lu28 Homo sapiens cDNA clone IMAGE:2547204 3' similar to SW:GG95_HUMAN
2598	15312	28048	1.35	5.0E-62	U39487.1	NT	O08379 GOLGIN-95, contains element MER22 repetitive element ;
2598	15312	28049	1.36	5.0E-62	U39487.1	NT	Homo sapiens Xq pseudautosomal region, segment 1/2
3413	16171	28820	2.92	5.0E-62	4506758	NT	Homo sapiens Xq pseudautosomal region, segment 1/2
4293	17032	26680	2.6	5.0E-62	AA431093.1	EST_HUMAN	Human xanthine dehydrogenase/oxidase mRNA, complete cds
8447	21139	34278	0.55	5.0E-62	4506758	NT	Human xanthine dehydrogenase/oxidase mRNA, complete cds
9417	22095	35267	6.45	5.0E-62	AW410687.1	EST_HUMAN	Homo sapiens ryanodine receptor 3 (RYR3) mRNA
11231	23894	37180	2.85	5.0E-62	11425574	NT	zw78e09.s1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:782344 3' similar to SW:NRDC_RAT
11231	23894	37181	2.85	5.0E-62	11425574	NT	P47245 NARDILYSIN ;
							Homo sapiens ryanodine receptor 3 (RYR3) mRNA
							fn07g09.x1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:2981616 5'
							Homo sapiens muscle specific gene (M9), mRNA
							Homo sapiens muscle specific gene (M9), mRNA

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Table 4
Single Exon Probes Expressed in Brain

Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
820	13591	26258	1.95	4.0E-62	AW161478.1	EST_HUMAN	au71d03.y1 Schneider fetal brain 00004 Homo sapiens cDNA clone IMAGE:2781701 5' similar to gb:M37104 ATP SYNTHASE COUPLING FACTOR 6, MITOCHONDRIAL PRECURSOR (HUMAN);
820	13591	26259	1.95	4.0E-62	AW161479.1	EST_HUMAN	au71d03.y1 Schneider fetal brain 00004 Homo sapiens cDNA clone IMAGE:2781701 5' similar to gb:M37104 ATP SYNTHASE COUPLING FACTOR 6, MITOCHONDRIAL PRECURSOR (HUMAN);
821	13591	26258	2.96	4.0E-62	AW161479.1	EST_HUMAN	au71d03.y1 Schneider fetal brain 00004 Homo sapiens cDNA clone IMAGE:2781701 5' similar to gb:M37104 ATP SYNTHASE COUPLING FACTOR 6, MITOCHONDRIAL PRECURSOR (HUMAN);
821	13591	26259	2.96	4.0E-62	AW161479.1	EST_HUMAN	au71d03.y1 Schneider fetal brain 00004 Homo sapiens cDNA clone IMAGE:2781701 5' similar to gb:M37104 ATP SYNTHASE COUPLING FACTOR 6, MITOCHONDRIAL PRECURSOR (HUMAN);
2459	15177	27916	1.78	4.0E-62	AB27900.1	EST_HUMAN	wf12b08.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2781701 5' similar to gb:M37104 ATP SYNTHASE COUPLING FACTOR 6, MITOCHONDRIAL PRECURSOR (HUMAN);
2459	15177	27917	1.78	4.0E-62	AB27900.1	EST_HUMAN	wf12b08.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2781701 5' similar to gb:M37104 ATP SYNTHASE COUPLING FACTOR 6, MITOCHONDRIAL PRECURSOR (HUMAN);
3394	16153		6.34	4.0E-62	4557887	NT	gb:X57138_rna1 HISTONE H2B.2 (HUMAN);
5833	18622	31555	1.84	4.0E-62	4506978	NT	Homo sapiens keratin 18 (KRT18) mRNA
6204	18979	31958	1.9	4.0E-62	11420654	NT	Homo sapiens solute carrier family 13 (sodium-dependent dicarboxylate transporter), member 2 (SLC13A2) mRNA
7071	19782	32828	1.84	4.0E-62	11421041	NT	Homo sapiens ubiquitin specific protease 9, X chromosome (Drosophila fat facets related) (USP9X), mRNA
7534	20204	33289	2.48	4.0E-62	7657057	NT	Homo sapiens phosphoribosyl pyrophosphate synthetase 2 (PRPS2), mRNA
7534	20204	33300	2.48	4.0E-62	7657057	NT	Homo sapiens eukaryotic translation initiation factor 2B, subunit 2 (beta, 39kD) (EIF2B2), mRNA
8071	21075	33894	1.08	4.0E-62	11429973	NT	Homo sapiens eukaryotic translation initiation factor 2B, subunit 2 (beta, 39kD) (EIF2B2), mRNA
8745	21437	34584	4.97	4.0E-62	AB033089.1	NT	Homo sapiens 26S proteasome-associated pad1 homolog (POH1), mRNA
10934	23614	36884	4.45	4.0E-62	AB033089.1	NT	Homo sapiens mRNA for KIAA1263 protein, partial cds
10934	23614	36865	4.45	4.0E-62	Z78766.1	NT	H. sapiens flow-sorted chromosome 6 HindIII fragment, SC8pA16D3
11995	24533	37270	2.81	4.0E-62	11418086	NT	H. sapiens flow-sorted chromosome 6 HindIII fragment, SC8pA16D3
12590	24947	30984	1.34	4.0E-62	11418322	NT	Homo sapiens putative nuclear protein (HRIHFB2122), mRNA
12645	24942	30981	16.72	4.0E-62	11417862	NT	Homo sapiens cadherin EGF LAG seven-pass G-type receptor 1 (CELSR1), mRNA
12645	24942	30982	16.72	4.0E-62	11417862	NT	Homo sapiens calcineurin binding protein 1 (KIAA0330), mRNA
12692	24976	30993	2.72	4.0E-62	11430460	NT	Homo sapiens calcineurin binding protein 1 (KIAA0330), mRNA
72	12809	25535	0.89	3.0E-62	4557794	NT	Homo sapiens low density lipoprotein-related protein 2 (LRP2), mRNA
3041	15807	28452	1.11	3.0E-62	AB040909.1	NT	Homo sapiens neurofibromin 2 (bilateral acoustic neuroma) (NF2) mRNA
3041	15807	28453	1.11	3.0E-62	AB040909.1	NT	Homo sapiens mRNA for KIAA1476 protein, partial cds
3686	16439	29081	5.41	3.0E-62	X62886.1	NT	Homo sapiens mRNA for KIAA1476 protein, partial cds Human cyclophilin-related processed pseudogene

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
8438	21130	34267	5.82	3.0E-62	AI632733.1	EST_HUMAN	wa33f04.x1 NCJ_CGAP_Kid11 Homo sapiens cDNA clone IMAGE:2299003 3' similar to contains THR12
1209	13900	26627	2.36	2.0E-62	AL163284.2	NT	THR repetitive element;
8673	21365	34511	4.89	2.0E-62	BF329911.1	EST_HUMAN	Homo sapiens chromosome 21 segment HS21C084
8673	21365	34512	4.89	2.0E-62	BF329911.1	EST_HUMAN	RC0-BN0284-300500-031-e05 BN0284 Homo sapiens cDNA
10072	22720		3.8	2.0E-62	AF224669.1	NT	RC0-BN0284-300500-031-e05 BN0284 Homo sapiens cDNA
11689	24284		4.81	2.0E-62	BF330676.1	EST_HUMAN	Homo sapiens mannosidase, beta A, lysosomal (MANBA) gene, and ubiquitin-conjugating enzyme E2D 3
1021	13781	26443	1.87	1.0E-62	AF248540.1	NT	(UBE2D3) genes, complete cds
1536	14283	26970	11.01	1.0E-62	L78810.1	NT	QV4-BT0257-081199-017-e03 BT0257 Homo sapiens cDNA
1791	14531	27239	1.04	1.0E-62	AA625207.1	EST_HUMAN	Homo sapiens intersecin 2 (SH3D1B) mRNA, complete cds
2915	15681	28328	0.99	1.0E-62	AL039044.1	EST_HUMAN	Homo sapiens ADP/ATP carrier protein (ANT-2) gene, complete cds
4317	17056		0.71	1.0E-62	BE166413.1	EST_HUMAN	at70e11.r1 Soares_NHMPu_S1 Homo sapiens cDNA clone IMAGE:1047404 5' similar to WP:K01H12.1
4490	17228	29855	1.57	1.0E-62	8923201	NT	CE03463;
5071	17790	30405	0.9	1.0E-62	L23503.1	NT	DKFp566F104 r1 586 (synonym: htkd2) Homo sapiens cDNA clone DKFp566F104 5'
							QV0-HT0463-280200-135-h12 HT0463 Homo sapiens cDNA
							Homo sapiens hypochlorite protein FLJ20212 (FLJ20212), mRNA
							Human glucagon-like peptide-1 receptor (GLP-1) mRNA, complete cds
							Homo sapiens X28 region near ALD locus containing dual specificity phosphatase 9 (DUSP9), ribosomal protein L18a (RPL18a), Caa2+/Calmodulin-dependent protein kinase I (CAMKI), creatine transporter (CRTR), CDM protein (CDM), adrenoleukodystrophy protein >
6198	18972	31948	0.86	1.0E-62	U52111.2	NT	ab05c02.s1 Stralagene fetal retina 937202 Homo sapiens cDNA clone IMAGE:839906 3'
7034	19726	32782	0.91	1.0E-62	AA49060.1	EST_HUMAN	zg89f10.s1 Soares_fetal_heart_NH1H19W Homo sapiens cDNA clone IMAGE:409771 3'
7045	19736	32796	2.94	1.0E-62	AA722878.1	EST_HUMAN	zg89f10.s1 Soares_fetal_heart_NH1H19W Homo sapiens cDNA clone IMAGE:409771 3'
7045	19736	32797	2.94	1.0E-62	AA722878.1	EST_HUMAN	zg89f10.s1 Soares_fetal_heart_NH1H19W Homo sapiens cDNA clone IMAGE:409771 3'
8655	21347	34491	0.5	1.0E-62	AA280050.1	EST_HUMAN	zg89f10.s1 NCJ_CGAP_GCB1 Homo sapiens cDNA clone IMAGE:705060 5'
8956	21847	34797	2.13	1.0E-62	7662289	NT	Homo sapiens KIAA0763 gene product (KIAA0763), mRNA
8956	21847	34798	2.13	1.0E-62	7662289	NT	Homo sapiens KIAA0763 gene product (KIAA0763), mRNA
8999	21889	34838	2.02	1.0E-62	X15533.1	NT	H. sapiens lysosomal acid phosphatase gene (EC 3.1.3.2) Exon 9
8999	21889	34839	2.02	1.0E-62	X15533.1	NT	H. sapiens lysosomal acid phosphatase gene (EC 3.1.3.2) Exon 9
9457	22007	35177	3.54	1.0E-62	AA465170.1	EST_HUMAN	aa33d08.s1 NCJ_CGAP_GCB1 Homo sapiens cDNA clone IMAGE:815055 3'
11339	24029	37333	2.01	1.0E-62	Z78698.1	NT	H. sapiens flow-sorted chromosome 6 HindIII fragment, SC6pA14D8
11866	24450	37792	1.52	1.0E-62	11424055	NT	Homo sapiens exosome component Rrp46 (LOC556915), mRNA
12474	24838		2.25	1.0E-62	11418322	NT	Homo sapiens cadherin EGF LAG seven-pass G-type receptor 1 (CELSR1), mRNA
12673	24966	30990	2.99	1.0E-62	11430460	NT	Homo sapiens low density lipoprotein-related protein 2 (LRP2), mRNA
329	13130	25765	2.59	9.0E-63	AW818405.1	EST_HUMAN	QV4-ST0234-181199-037-405 ST0234 Homo sapiens cDNA
2345	15068		1.53	9.0E-63	C18159.1	EST_HUMAN	C18159 Human placenta cDNA (TFujjiwara) Homo sapiens cDNA clone GEN-558C10 5'

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
4020	16766	29395	7.42	9.0E-63	AB002348.2	NT	Homo sapiens mRNA for KIAA0350 protein, partial cds
4020	16766	29395	7.42	9.0E-63	AB002348.2	NT	Homo sapiens mRNA for KIAA0350 protein, partial cds
5164	17895	37798	3.05	9.0E-63	11418185	NT	Homo sapiens aconitase 2, mitochondrial (ACO2), mRNA
5379	18179	30869	1.63	9.0E-63	Y15056.1	NT	Homo sapiens mRNA for Pkb kinase
7082	19772	32837	3.86	9.0E-63	11426985	NT	Homo sapiens nucleoporin 88KD (NUP88), mRNA
7724	20387	33501	0.91	9.0E-63	4885544	NT	Homo sapiens pyruvate dehydrogenase kinase, isoenzyme 3 (PDK3) mRNA
8224	20918	34055	1.38	9.0E-63	11421160	NT	Homo sapiens Ras association (RalGDS/AF-6) domain family 2 (RASSF2), mRNA
10816	23499	36736	2.03	9.0E-63	7662289	NT	Homo sapiens KIAA0763 gene product (KIAA0763), mRNA
10816	23499	36737	2.03	9.0E-63	7662289	NT	Homo sapiens KIAA0763 gene product (KIAA0763), mRNA
2343	15066	27603	1.32	8.0E-63	4557734	NT	Homo sapiens monamine oxidase A (MAOA), nuclear gene encoding mitochondrial protein, mRNA
2373	15095	27834	2.06	8.0E-63	5031810	NT	Homo sapiens IL2-inducible T-cell kinase (ITK), mRNA
3454	16210	28861	3.02	8.0E-63	AF198349.1	NT	Gallus gallus Dach2 protein (Dach2) mRNA, complete cds
3454	16210	28862	3.02	8.0E-63	AF198349.1	NT	Gallus gallus Dach2 protein (Dach2) mRNA, complete cds
4234	16975	29600	3.31	8.0E-63	AL163268.2	NT	Homo sapiens chromosome 21 segment HS21C068
908	13675		2.09	7.0E-63	AB72137.1	EST_HUMAN	wim55g11.x1 NCI_CGAP_U12 Homo sapiens cDNA clone IMAGE:2439908 3'
5255	18061		48.05	6.0E-63	AA420803.1	EST_HUMAN	nc63102.11 NCI_CGAP_P1 Homo sapiens cDNA clone IMAGE:745947 similar to gb:Y00361 60S
8773	21465	34612	1.97	5.0E-63	11526464	NT	RIBOSOMAL PROTEIN (HUMAN);
3315	16075	28726	0.84	4.0E-63	AL163278.2	NT	Homo sapiens chromosome 21 segment HS21C078
3788	16540	29174	1.16	4.0E-63	AB014607.1	NT	Homo sapiens mRNA for KIAA0707 protein, partial cds
3788	16540	29175	1.16	4.0E-63	AB014607.1	NT	Homo sapiens mRNA for KIAA0707 protein, partial cds
6353	19123	32115	3.64	4.0E-63	AW750372.1	EST_HUMAN	CM3-BT0595-190100-072-a09 BT0595 Homo sapiens cDNA
6353	19123	32116	3.64	4.0E-63	AW750372.1	EST_HUMAN	CM3-BT0595-190100-072-a09 BT0595 Homo sapiens cDNA
11077	23747	37021	2.3	4.0E-63	AW134709.1	EST_HUMAN	UI-H-B11-abq-a-02-0-U1.s1 NCI_CGAP_Sub3 Homo sapiens cDNA clone IMAGE:2712482 3'
11077	23747	37022	2.3	4.0E-63	AW134709.1	EST_HUMAN	UI-H-B11-abq-a-02-0-U1.s1 NCI_CGAP_Sub3 Homo sapiens cDNA clone IMAGE:2712482 3'
11846	24430	37771	4.32	4.0E-63	AA362834.1	EST_HUMAN	EST72607 Ovary II Homo sapiens cDNA 5' end similar to similar to zinc finger protein family
1928	14664	27377	2.82	3.0E-63	AB018260.1	NT	Homo sapiens mRNA for KIAA0717 protein, partial cds
2782	15487	28225	2.26	3.0E-63	J00310.1	NT	Human Met-RNA-1 gene 1
2824	13967	26636	11.81	3.0E-63	6005963	NT	Homo sapiens zinc finger protein 144 (ZNF144), mRNA
6392	19151	32150	32.78	3.0E-63	11545810	NT	Homo sapiens hepatocellular carcinoma antigen gene 520 (LOC63928), mRNA
9605	22258	35444	1.15	3.0E-63	BE576158.1	EST_HUMAN	601485656F1 NIH_MGC_69 Homo sapiens cDNA clone IMAGE:3886253 5'
9605	22258	35445	1.15	3.0E-63	BE576158.1	EST_HUMAN	601485656F1 NIH_MGC_69 Homo sapiens cDNA clone IMAGE:3886253 5'
188	12989	25639	1.09	2.0E-63	U07804.1	NT	Human DNA topoisomerase I mRNA, partial cds

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
183	13006	26647	1.68	2.0E-63	4885228	NT	Homo sapiens eyes absent (Drosophila) homolog 2 (EYA2), mRNA
485	13270		2.34	2.0E-63	4557624	NT	Homo sapiens glutamate-cysteine ligase (gamma-glutamylcysteine synthetase), catalytic (72.8kD) (GLCLC) mRNA
807	13579	26244	5.57	2.0E-63	7657042	NT	Homo sapiens Down syndrome candidate region 1 (DSOR1), mRNA
1559	14306	26994	1.43	2.0E-63	AB030388.1	NT	Homo sapiens RHCE mRNA for Rh blood CE group antigen polypeptide, complete cds
1559	14306	26995	1.43	2.0E-63	AB030388.1	NT	Homo sapiens RHCE mRNA for Rh blood CE group antigen polypeptide, complete cds
1760	14502	27203	1.1	2.0E-63	BE410739.1	EST_HUMAN	601301627F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3636103 5'
3154	15917	28563	3.44	2.0E-63	4502166	NT	Homo sapiens amyloid beta (A4) precursor protein (protease nexin-II, Alzheimer disease) (APP), mRNA
3279	16040	28690	2.02	2.0E-63	AF109718.1	NT	Homo sapiens chromosome 3 subtelomeric region
3885	16635	29274	3.74	2.0E-63	L39891.1	NT	Homo sapiens polycystic kidney disease-associated protein (PKD1) gene, complete cds
4813	17544	30169	1	2.0E-63	AF111167.2	NT	Homo sapiens jun dimerization protein gene, partial cds; cfos gene, complete cds; and unknown gene
5099	17818	30435	0.96	2.0E-63	6912617	NT	Homo sapiens glutamyl-peptide cyclotransferase (glutamyl cyclase) (QPCT), mRNA
5181	25062	30505	1.25	2.0E-63	11419429	NT	Homo sapiens similar to ectonucleotide pyrophosphatase/phosphodiesterase 3 (H. sapiens) (LOC63214), mRNA
5794	18585	31512	2.96	2.0E-63	BF373541.1	EST_HUMAN	QV1-FT0170-040700-265-c05 FT0170 Homo sapiens cDNA
5794	18585	31513	2.96	2.0E-63	BF373541.1	EST_HUMAN	QV1-FT0170-040700-265-c05 FT0170 Homo sapiens cDNA
6093	18871	31837	0.84	2.0E-63	11421940	NT	Homo sapiens protein kinase, cAMP-dependent, regulatory, type II, beta (PRKAR2B), mRNA
6093	18871	31838	0.84	2.0E-63	11421940	NT	Homo sapiens protein kinase, cAMP-dependent, regulatory, type II, beta (PRKAR2B), mRNA
6602	19365	32379	1.67	2.0E-63	U66059.1	NT	Human germline T-cell receptor beta chain Dopamine-beta-hydroxylase-like, TRY1, TRY2, TRY3, TCRBV27S1P, TCRBV22S1A2N1T, TCRBV9S1A1T, TCRBV7S1A1N2T, TCRBV6S1A1T, TCRBV13S3, TCRBV6S7P, TCRBV7S3A2T, TCRBV13S2A1T, TCRBV9S2A2PT, TCRBV7S2A1N4T, TCRBV13S9/13S>
6649	19411	32425	0.88	2.0E-63	AB032369.1	NT	Homo sapiens MIST mRNA, partial cds
6649	19411	32426	0.88	2.0E-63	AB032369.1	NT	Homo sapiens MIST mRNA, partial cds
6975	19456	32477	1.45	2.0E-63	9910365	NT	Homo sapiens Carbonic anhydrase-related protein 10 (LOC566934), mRNA
6975	19456	32478	1.45	2.0E-63	9910365	NT	Homo sapiens Carbonic anhydrase-related protein 10 (LOC566934), mRNA
7678	20342	33454	0.87	2.0E-63	AB046844.1	NT	Homo sapiens mRNA for KIAA1624 protein, partial cds
7713	20377	33490	0.56	2.0E-63	11421514	NT	Homo sapiens similar to sema domain, immunoglobulin domain (Ig), short basic domain, secreted, (semaphorin) 3A (H. sapiens) (LOC63232), mRNA
8431	21124	34262	3.96	2.0E-63	AL163210.2	NT	Homo sapiens chromosome 21 segment HS21C010
8952	21643	34791	1.35	2.0E-63	11420949	NT	Homo sapiens kinesin family member 3B (KIF3B), mRNA
8952	21643	34792	1.35	2.0E-63	11420949	NT	Homo sapiens kinesin family member 3B (KIF3B), mRNA

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Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
9839	22490	35891	1.12	2.0E-63	AL163218.2	NT	Homo sapiens chromosome 21 segment HS21C018
10847	23338	36577	6.43	2.0E-63	N78945.1	EST_HUMAN	zb18b05.s1 Soares_fetal_lung_NDHL19W Homo sapiens cDNA clone IMAGE:302385 3' similar to gb:X17206 40S RIBOSOMAL PROTEIN S4 (HUMAN);
10872	23363	36604	2.96	2.0E-63	AF09810.1	NT	Homo sapiens neuroxin III-alpha gene, partial cds
10872	23363	36605	2.96	2.0E-63	AF09810.1	NT	Homo sapiens neuroxin III-alpha gene, partial cds
12098	25177	30807	5.97	2.0E-63	11418185	NT	Homo sapiens aconitase 2, mitochondrial (ACO2), mRNA
1502	14248	26934	1.28	1.0E-63	F08485.1	EST_HUMAN	HSC2VD111 normalized infant brain cDNA Homo sapiens cDNA clone c-zvd11
1502	14248	26935	1.28	1.0E-63	F08485.1	EST_HUMAN	HSC2VD111 normalized infant brain cDNA Homo sapiens cDNA clone c-zvd11
4308	17047	29872	2.92	1.0E-63	F08485.1	EST_HUMAN	HSC2VD111 normalized infant brain cDNA Homo sapiens cDNA clone c-zvd11
4308	17047	29873	2.92	1.0E-63	F08485.1	EST_HUMAN	HSC2VD111 normalized infant brain cDNA Homo sapiens cDNA clone c-zvd11
5268	18074	30703	0.8	1.0E-63	AJ271736.1	NT	Homo sapiens Xq pseudautosomal region; segment 2/2
5683	18476	31394	1.4	1.0E-63	AW582366.1	EST_HUMAN	QY0-ST0215-060100-083-b09 ST0215 Homo sapiens cDNA
6298	19071	32055	0.68	1.0E-63	AW451950.1	EST_HUMAN	UI-H-B13-alt-h-02-0-U1.s1 NCI CGAP Sub5 Homo sapiens cDNA clone IMAGE:3068763 3'
6298	19071	32056	0.68	1.0E-63	AW451950.1	EST_HUMAN	UI-H-B13-alt-h-02-0-U1.s1 NCI CGAP Sub5 Homo sapiens cDNA clone IMAGE:3068763 3'
8371	21064		2.68	1.0E-63	AL163247.2	NT	Homo sapiens chromosome 21 segment HS21C047
12737	25286		4.04	1.0E-63	AL163207.2	NT	Homo sapiens chromosome 21 segment HS21C007
7768	20462	33986	4.36	9.0E-64	AI478186.1	EST_HUMAN	Im50p07.x1 NCI CGAP_Kid11 Homo sapiens cDNA clone IMAGE:2161625 3'
1024	13784		6.16	8.0E-64	BE280796.1	EST_HUMAN	601155232F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3139038 5'
6049	18829	31792	3.88	8.0E-64	BE885755.1	EST_HUMAN	601508968F1 NIH_MGC_71 Homo sapiens cDNA clone IMAGE:3910336 5'
11918	24479		7.34	8.0E-64	11418177	NT	Homo sapiens Ran GTPase activating protein 1 (RANGAP1), mRNA
11970	24516		1.6	8.0E-64	T60651.1	EST_HUMAN	y98B02.r1 Stratagene lung (#937210) Homo sapiens cDNA clone IMAGE:79179 5'
3520	16276		1.13	7.0E-64	BE394321.1	EST_HUMAN	601311455F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3633204 5'
4683	17417	30052	2.73	7.0E-64	4507490	NT	Homo sapiens thimet oligopeptidase 1 (THOPT1) mRNA
4683	17417	30053	2.73	7.0E-64	4507490	NT	Homo sapiens thimet oligopeptidase 1 (THOPT1) mRNA
9933	22581	35779	3.43	7.0E-64	Y07848.1	NT	Homo sapiens EWS, gar22, rrp22 and bam22 genes
1716	14459	27156	1.63	6.0E-64	AI651992.1	EST_HUMAN	wb51e07.x1 NCI CGAP_G06 Homo sapiens cDNA clone IMAGE:2309220 3' similar to gb:M15182 BETA-GLUCURONIDASE PRECURSOR (HUMAN);
1716	14459	27157	1.63	6.0E-64	AI651992.1	EST_HUMAN	wb51e07.x1 NCI CGAP_G06 Homo sapiens cDNA clone IMAGE:2309220 3' similar to gb:M15182 BETA-GLUCURONIDASE PRECURSOR (HUMAN);
3120	15885	28524	4.39	6.0E-64	AW026445.1	EST_HUMAN	wy13e03.x1 NCI CGAP_Bm23 Homo sapiens cDNA clone IMAGE:2529436 3'
3120	15885	28525	4.39	6.0E-64	AW026445.1	EST_HUMAN	wy13e03.x1 NCI CGAP_Bm23 Homo sapiens cDNA clone IMAGE:2529436 3'
5334	18332	31237	2.46	6.0E-64	Y18933.1	NT	Homo sapiens MCP-1 gene and enhancer region
5534	18332		2.46	6.0E-64	Y18933.1	NT	Homo sapiens MCP-1 gene and enhancer region
5555	18352	31261	4.08	6.0E-64	MT13975.1	NT	Homo sapiens protein kinase C beta-II type (PRKCB1) mRNA, complete cds

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Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
5564	18361	31269	1.26	6.0E-64	6912461	NT	Homo sapiens atrophin-1 interacting protein 1: activin receptor interacting protein 1 (KIAA0705), mRNA
5739	18531	31453	0.82	6.0E-64	11422189	NT	Homo sapiens calcitonin receptor (CALCR), mRNA
5739	18531	31454	0.82	6.0E-64	11422189	NT	Homo sapiens calcitonin receptor (CALCR), mRNA
7136	19823	32889	2.34	6.0E-64	11525879	NT	Homo sapiens mesenchyme homeo box 1 (MEOX1), mRNA
7136	19823	32890	2.34	6.0E-64	11525879	NT	Homo sapiens mesenchyme homeo box 1 (MEOX1), mRNA
9226	21905	35077	6.76	6.0E-64	11420555	NT	Homo sapiens acetyl-CoA synthetase (LOC55902), mRNA
9406	22068	35240	2.09	6.0E-64	AF274753.1	NT	Homo sapiens progressive ankylosis-like protein (ANK), mRNA, complete cds
9618	22271	35458	2.78	6.0E-64	S78475.1	NT	ttrC [human, brain, mRNA, 2715 nt]
10669	23360	36600	6.01	6.0E-64	11420197	NT	Homo sapiens stromal antigen 3 (STAG3), mRNA
10669	23360	36601	6.01	6.0E-64	11420197	NT	Homo sapiens stromal antigen 3 (STAG3), mRNA
10941	15885	28524	1.84	6.0E-64	AW028445.1	EST_HUMAN	wr13a03.x1 NCI_CGAP_Bm23 Homo sapiens cDNA clone IMAGE:2529436 3'
10941	15885	28525	1.84	6.0E-64	AW028445.1	EST_HUMAN	wr13a03.x1 NCI_CGAP_Bm23 Homo sapiens cDNA clone IMAGE:2529436 3'
12115	24608	31089	4.97	6.0E-64	11526198	NT	Homo sapiens interleukin 10 receptor, beta (IL10RB), mRNA
801	13573	26235	2.85	5.0E-64	AF231919.1	NT	Homo sapiens chromosome 21 unknown mRNA
801	13573	26236	2.85	5.0E-64	AF231919.1	NT	Homo sapiens chromosome 21 unknown mRNA
1316	14064	26738	1.84	5.0E-64	AB020710.1	NT	Homo sapiens mRNA for KIAA0903 protein, partial cds
1401	14148	26827	1.3	5.0E-64	L40933.1	NT	Homo sapiens phosphoglucomutase-related protein (PGMRP) gene, complete cds
1401	14148	26828	1.3	5.0E-64	L40933.1	NT	Homo sapiens phosphoglucomutase-related protein (PGMRP) gene, complete cds
1708	14449	27149	1.37	5.0E-64	U89358.1	NT	Human (3)mbt protein homolog mRNA, complete cds
2829	14210	26897	4.85	5.0E-64	7662205	NT	Homo sapiens KIAA0618 gene product (KIAA0618), mRNA
2829	14210	26898	4.85	5.0E-64	7662205	NT	Homo sapiens KIAA0618 gene product (KIAA0618), mRNA
3940	16690	29328	6.71	5.0E-64	AF017433.1	NT	Homo sapiens putative transcription factor CR53 (CR53) mRNA, partial cds
4085	16828	29455	1.05	5.0E-64	AB020710.1	NT	Homo sapiens mRNA for KIAA0903 protein, partial cds
7716	20380	33493	0.58	4.0E-64	BE794607.1	EST_HUMAN	601590382F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3944397 5'
10715	23404	36844	2.23	4.0E-64	AW813783.1	EST_HUMAN	RC3-ST0197-120200-015-a03 ST0197 Homo sapiens cDNA
10715	23404	36845	2.23	4.0E-64	AW813783.1	EST_HUMAN	RC3-ST0197-120200-015-a03 ST0197 Homo sapiens cDNA
2195	14924	27658	5.41	3.0E-64	C18895.1	EST_HUMAN	C18895 Human placenta cDNA (TFujwara) Homo sapiens cDNA clone GEN-569E02 5'
3249	16011	28662	0.89	3.0E-64	BE794381.1	EST_HUMAN	601589563F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3943577 5'
3436	16192	28841	2.22	3.0E-64	AV711714.1	EST_HUMAN	AV711714 DCA Homo sapiens cDNA clone DCAAMC01 5'
3436	16192	28842	2.22	3.0E-64	AV711714.1	EST_HUMAN	AV711714 DCA Homo sapiens cDNA clone DCAAMC01 5'
5990	18771	31734	1.21	3.0E-64	Z28273.1	NT	H. sapiens isoform 1 gene for L-type calcium channel, exon 28
6401	19170	32169	3.34	3.0E-64	BF370000.1	EST_HUMAN	RC6-FN0019-290600-011-G11 FN0019 Homo sapiens cDNA
8365	21058	34198	1.93	3.0E-64	AF248953.1	NT	Homo sapiens gagi matrix protein GM130 (GOLGA2) mRNA, complete cds

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Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
8366	21058	34199	1.93	3.0E-64	AF248953.1	NT	Homo sapiens golgi matrix protein GM130 (GOLGA2) mRNA, complete cds
8393	21086	34220	3.69	3.0E-64	BE206521.1	EST_HUMAN	b572h12.y1 NIH_MGC_12 Homo sapiens cDNA clone IMAGE:3047975 5' similar to gb:L08069 DNAJ PROTEIN HOMOLOG 2 (HUMAN);
8393	21086	34221	3.69	3.0E-64	BE206521.1	EST_HUMAN	b572h12.y1 NIH_MGC_12 Homo sapiens cDNA clone IMAGE:3047975 5' similar to gb:L08069 DNAJ PROTEIN HOMOLOG 2 (HUMAN);
9327	21994	35165	1.54	3.0E-64	AL163246.2	NT	Homo sapiens chromosome 21 segment HS21C046
9327	21994	35166	1.54	3.0E-64	AL163246.2	NT	Homo sapiens chromosome 21 segment HS21C046
9414	22092	35263	0.6	3.0E-64	AW977384.1	EST_HUMAN	EST389493 IMAGE resequences, MAGO Homo sapiens cDNA
9414	22092	35264	0.6	3.0E-64	AW977384.1	EST_HUMAN	EST389493 IMAGE resequences, MAGO Homo sapiens cDNA
11691	24286	37608	1.8	3.0E-64	AL163227.2	NT	Homo sapiens chromosome 21 segment HS21C027
1066	13824	26484	1.84	2.0E-64	AA069940.1	EST_HUMAN	af09d08.s1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:1031151 3'
1377	14125	26799	1.54	2.0E-64	4757701	NT	Homo sapiens aIF4E-like cap-binding protein (4EHP) mRNA wc87b01.x1 NCI_CGAP_Kid11 Homo sapiens cDNA clone IMAGE:2462281 3' similar to contains element L1 repetitive element;
2528	16244		1.82	2.0E-64	AI927030.1	EST_HUMAN	Homo sapiens chromosome 21 segment HS21C046
2533	15248	27987	2.05	2.0E-64	AL163246.2	NT	Homo sapiens chromosome 21 segment HS21C046
2533	15248	27988	2.05	2.0E-64	AL163246.2	NT	Homo sapiens chromosome 21 segment HS21C046
3137	15901	28546	1.42	2.0E-64	4504088	NT	Homo sapiens glutamic-oxaloacetic transaminase 2, mitochondrial (aspartate aminotransferase 2) (GOT2), nuclear gene encoding mitochondrial protein, mRNA
3767	16519	29157	0.78	2.0E-64	AW958145.1	EST_HUMAN	EST370215 IMAGE resequences, MAGO Homo sapiens cDNA
3767	16519	29158	0.78	2.0E-64	AW958145.1	EST_HUMAN	EST370215 IMAGE resequences, MAGO Homo sapiens cDNA
5916	18701	31655	2.78	2.0E-64	AU124387.1	EST_HUMAN	AU124387 NT2RM2 Homo sapiens cDNA clone NT2RM2002113 5'
6148	18925	31895	1.47	2.0E-64	AF113708.1	NT	Homo sapiens angiotensin 4 (ANG4) mRNA, partial cds
6394	19163	32164	5.21	2.0E-64	BF688537.1	EST_HUMAN	602123474F1 NIH_MGC_56 Homo sapiens cDNA clone IMAGE:4280395 5'
6497	19263	32264	1.16	2.0E-64	AI078387.1	EST_HUMAN	cz29b03.x1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:1676717 3'
6601	19364	32378	4.54	2.0E-64	M77185.1	NT	H. sapiens dopamine receptor D5 pseudogene 1, partial cds
7707	20371	33484	0.7	2.0E-64	11431054	NT	Homo sapiens ataxin 2-binding protein 1 (A2BP1), mRNA
7732	20395	33510	0.65	2.0E-64	AW606785.1	EST_HUMAN	QV1-HT0413-010200-059-H12 HT0413 Homo sapiens cDNA
8567	21259	34395	0.73	2.0E-64	11434008	NT	Homo sapiens lymphocyte cytosolic protein 1 (L-plastin) (LCPT), mRNA
8567	21259	34396	0.73	2.0E-64	11434008	NT	Homo sapiens lymphocyte cytosolic protein 1 (L-plastin) (LCPT), mRNA
8038	21728	34882	0.56	2.0E-64	11423508	NT	Homo sapiens hypothetical protein SBBI67 (LOC57115), mRNA
9130	21818	34984	0.97	2.0E-64	AU132570.1	EST_HUMAN	AU132570 NT2RP4 Homo sapiens cDNA clone NT2RP4000109 5'
9879	22629	35726	0.59	2.0E-64	T06897.1	EST_HUMAN	EST04286 Fetal brain, Striatum (cat#366206) Homo sapiens cDNA clone HFBDS88
9879	22629	35727	0.59	2.0E-64	T06897.1	EST_HUMAN	EST04286 Fetal brain, Striatum (cat#366206) Homo sapiens cDNA clone HFBDS88
10662	23353	36592	3.72	2.0E-64	BF528114.1	EST_HUMAN	602042882F1 NCI_CGAP_Brn67 Homo sapiens cDNA clone IMAGE:4180556 5'

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
10981	23656	36909	5.97	2.0E-64	AI922911.1	EST_HUMAN	wn81b06.x1 NCL_CGAP_U11 Homo sapiens cDNA clone IMAGE:2452211 3'
10981	23656	36910	5.97	2.0E-64	AI922911.1	EST_HUMAN	wn81b06.x1 NCL_CGAP_U11 Homo sapiens cDNA clone IMAGE:2452211 3'
11198	23863	37149	1.76	2.0E-64	AW864773.1	EST_HUMAN	PM2-SN0018-220300-002-e12 SN0018 Homo sapiens cDNA
12039	24562	31114	1.55	2.0E-64	8567387	NT	Homo sapiens period (Drosophila) homolog 3 (PER3), mRNA
12468	24834		4.85	2.0E-64	H55162.1	EST_HUMAN	CHR220101 Chromosome 22 exon Homo sapiens cDNA clone C22_132 5'
251	13060	25698	2.94	1.0E-64	AF231916.1	NT	Homo sapiens chromosome 21 unknown mRNA
1772	14514	27214	10.45	1.0E-64	AI929419.1	EST_HUMAN	au60c01.x1 Schneider fetal brain 00004 Homo sapiens cDNA clone IMAGE:2519136 3' similar to
3010	15776	28426	0.79	1.0E-64	4507334	NT	gbL21696_cds1 PROTHYMOSIN ALPHA (HUMAN); contains element MSR1 repetitive element ;
							Homo sapiens synaptotagmin 1 (SYNJ1), mRNA
3501	16257	28912	5.74	1.0E-64	AF196778.1	NT	Homo sapiens transcription factor IGHM enhancer 3, JM11 protein, JM4 protein, JM5 protein, T54 protein, JM10 protein, A4 differentiation-dependent protein, triple LIM domain protein 6, and synaptophysin genes, complete cds; and L-type calcium channel a2
3572	16327	28974	1.27	1.0E-64	AF228527.1	NT	Homo sapiens TRIAD3 mRNA, partial cds
3572	16327	28975	1.27	1.0E-64	AF228527.1	NT	Homo sapiens TRIAD3 mRNA, partial cds
3881	16831	29270	0.79	1.0E-64	8922828	EST_HUMAN	Homo sapiens TRIAD3 mRNA, partial cds
9864	22612	35816	1.07	1.0E-64	AA042975.1	EST_HUMAN	Homo sapiens hypothetical protein FLJ11026 (FLJ11026), mRNA
12012	24545		1.81	1.0E-64	AL163246.2	NT	zk53108.s1 Soares_pregnant_uterus_NbHPU Homo sapiens cDNA clone IMAGE:486667 3'
2274	15000	27738	1.53	9.0E-65	X89211.1	NT	Homo sapiens chromosome 21 segment HS21C046
2274	15000	27739	1.53	9.0E-65	X89211.1	NT	H. sapiens DNA for endogenous retroviral like element
11523	24123		10.43	9.0E-65	BF330876.1	EST_HUMAN	H. sapiens DNA for endogenous retroviral like element
11493	24094	37405	10.87	8.0E-65	AI929244.1	EST_HUMAN	QV4-BT0257-081199-017-e03 BT0257 Homo sapiens cDNA
10055	22703	35921	2.01	7.0E-65	BE081653.1	EST_HUMAN	au58h07.x1 Schneider fetal brain 00004 Homo sapiens cDNA clone IMAGE:2519005 3' similar to
11807	24397	37731	1.27	7.0E-65	Z21378.1	EST_HUMAN	SW:RL21_HUMAN P46778 60S RIBOSOMAL PROTEIN L21. ;
1034	13794	26454	3.59	6.0E-65	AV721898.1	EST_HUMAN	QV2-BT0635-240400-162-c02 BT0635 Homo sapiens cDNA
1915	14652		4.73	6.0E-65	AA550929.1	EST_HUMAN	HSAAEAOWO TEST1, Human adult Testis tissue Homo sapiens cDNA clone cam test346 (b)
6475	19242	32242	0.62	6.0E-65	AA503892.1	EST_HUMAN	AV721898 HTB Homo sapiens cDNA clone HTBBZC06 5'
							n86d10.s1 NCL_CGAP_P111 Homo sapiens cDNA clone IMAGE:999379 similar to gb:K03002 60S
							RIBOSOMAL PROTEIN L32 (HUMAN);
							nh37b07.s1 NCL_CGAP_P15 Homo sapiens cDNA clone IMAGE:954517
8945	21337	34481	2.3	6.0E-65	AW089325.1	EST_HUMAN	xc07b09.x1 NCL_CGAP_Co21 Homo sapiens cDNA clone IMAGE:2583545 3' similar to TR:Q63306 Q63306
8909	21600	34742	3.46	6.0E-65	AA427878.1	EST_HUMAN	LONG INTERSPERSED REPETITIVE DNA CONTAINING 7 ORF'S. ; contains L1.b2 L1 repetitive element ;
8909	21600	34743	3.46	6.0E-65	AA427878.1	EST_HUMAN	zw53b06.s1 Soares_total_fetus_Nb2HF8_9w Homo sapiens cDNA clone IMAGE:773747 3'
8973	21683	34814	0.81	6.0E-65	AI085314.1	EST_HUMAN	zw53b06.s1 Soares_total_fetus_Nb2HF8_9w Homo sapiens cDNA clone IMAGE:773747 3'

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
8973	21663	34815	0.81	6.0E-65	AI085314.1	EST_HUMAN	qf18h05.x1 NCI_CGAP_Bm25 Homo sapiens cDNA clone IMAGE:1750425 3'
10783	23466	36707	3.82	6.0E-65	BE567816.1	EST_HUMAN	601340485F1 NIH_MGC_53 Homo sapiens cDNA clone IMAGE:3682677 5'
10968	23644	36897	1.52	6.0E-65	BF340825.1	EST_HUMAN	602037721F1 NCI_CGAP_Bm64 Homo sapiens cDNA clone IMAGE:4185677 5'
11480	24081	37392	1.86	6.0E-65	AL163210.2	NT	Homo sapiens chromosome 21 segment HS21C010
1331	14080	26754	1.61	5.0E-65	7661951	NT	Homo sapiens KIAA0156 gene product (KIAA0156), mRNA
1331	14080	26755	1.6	5.0E-65	7661951	NT	Homo sapiens KIAA0156 gene product (KIAA0156), mRNA
2151	14881	27615	1.6	5.0E-65	AB033768.1	NT	Homo sapiens hPAD-colony10 mRNA for peptidylarginine deaminase type I, complete cds
3250	16012	28663	1.6	5.0E-65	4507848	NT	Homo sapiens ubiquitin specific protease 13 (isopeptidase T-3) (USP13) mRNA
3250	16012	28664	1.6	5.0E-65	4507848	NT	Homo sapiens ubiquitin specific protease 13 (isopeptidase T-3) (USP13) mRNA
10364	23011	36226	1.01	5.0E-65	AF009698.1	NT	Multiple sclerosis associated retrovirus polyprotein (pol) mRNA, partial cds
188	13001	25642	2.02	4.0E-65	AL120419.1	EST_HUMAN	DKFZp761G108.1 781 (synonym: hamy2) Homo sapiens cDNA clone DKFZp761G108 5'
728	13502	26156	1.37	4.0E-65	AI266468.1	EST_HUMAN	qm46e01.x1 Soares_placenta_8to9weeks_2NbHP8b9W Homo sapiens cDNA clone IMAGE:1891800 3'
728	13502	26157	1.37	4.0E-65	AI266468.1	EST_HUMAN	qm46e01.x1 Soares_placenta_8to9weeks_2NbHP8b9W Homo sapiens cDNA clone IMAGE:1891800 3'
1056	13814	26475	1.38	4.0E-65	4826735	NT	Homo sapiens fragile X mental retardation, autosomal homolog 1 (FXR1), mRNA
1489	14216	26903	11.08	4.0E-65	4506636	NT	Homo sapiens ribosomal protein L34 (RPL34) mRNA
2336	15060	27796	0.91	4.0E-65	BE221489.1	EST_HUMAN	hu25e04.x1 NCI_CGAP_Mel15 Homo sapiens cDNA clone IMAGE:3171102 3'
2336	15060	27797	0.91	4.0E-65	BE221489.1	EST_HUMAN	hu25e04.x1 NCI_CGAP_Mel15 Homo sapiens cDNA clone IMAGE:3171102 3'
3930	16680	29321	1.08	4.0E-65	AW993185.1	EST_HUMAN	RC2-BN0033-160200-013-a03 BN0033 Homo sapiens cDNA
5124	17842	30459	1.03	4.0E-65	9055269	NT	Homo sapiens low density lipoprotein receptor related protein-deleted in tumor (LRPDI1), mRNA
5124	17842	30460	1.03	4.0E-65	9055269	NT	Homo sapiens low density lipoprotein receptor related protein-deleted in tumor (LRPDI1), mRNA
6063	18842	31804	4.6	4.0E-65	AB033093.1	NT	Homo sapiens mRNA for KIAA1267 protein, partial cds
6063	18842	31805	4.6	4.0E-65	AB033093.1	NT	Homo sapiens mRNA for KIAA1267 protein, partial cds
6983	19676	32723	0.55	4.0E-65	AY008372.1	NT	Homo sapiens oxysterol binding protein-related protein 3 (ORP3) mRNA, complete cds
7017	19709	32765	0.97	4.0E-65	MT19878.1	NT	Human clabindin 27 gene, exons 10 and 11, and L1 and Alu repeats
7119	19807	32873	2.52	4.0E-65	11545780	NT	Homo sapiens hypothetical protein FLJ22087 (FLJ22087), mRNA
7448	20124	33215	0.97	4.0E-65	U40372.1	NT	Human 3' 5' cyclic nucleotide phosphodiesterase (HSPDE1C3A) mRNA, partial cds
7448	20124	33216	0.97	4.0E-65	U40372.1	NT	Human 3' 5' cyclic nucleotide phosphodiesterase (HSPDE1C3A) mRNA, partial cds
7741	20437	33558	1.86	4.0E-65	5453765	NT	Homo sapiens nel (chicken)-like 2 (NELL2), mRNA
7741	20437	33559	1.86	4.0E-65	5453765	NT	Homo sapiens nel (chicken)-like 2 (NELL2), mRNA
9044	21734	34888	0.63	4.0E-65	11429127	NT	Homo sapiens Janus kinase 2 (a protein tyrosine kinase) (JAK2), mRNA
10480	23126		2.04	4.0E-65	AJ277546.2	NT	Homo sapiens WEE1 gene for protein kinase and partial ZNF143 gene for zinc finger transcription factor

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
10874	23554	36801	1.97	4.0E-65	AV738764.1	EST_HUMAN	AV738764 CB Homo sapiens cDNA clone CBC0BE05 5'
11041	23712	36982	3.68	4.0E-65	AF119846.1	NT	Homo sapiens PRO1474 mRNA, complete cds
12319	13814	26475	1.46	4.0E-65	4826735	NT	Homo sapiens fragile X mental retardation, autosomal homolog 1 (FXR1), mRNA
1210	15522		3.8	3.0E-65	X78932.1	NT	H. sapiens HZF9 mRNA for zinc finger protein
1551	14297	26984	0.91	3.0E-65	4504628	NT	Homo sapiens immunoglobulin superfamily, member 3 (IGSF3) mRNA, and translated products
1816	14556	27271	0.93	3.0E-65	A1000692.1	EST_HUMAN	ov23f03.s1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:1638173 3' similar to contains element
3271	16032	28683	0.75	3.0E-65	4504960	NT	MSR1 repetitive element ; Homo sapiens laminin, beta 1 (LAMB1), mRNA
3709	16462	29101	0.99	3.0E-65	A1000692.1	EST_HUMAN	ov23f03.s1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:1638173 3' similar to contains element
4602	17337	29966	1.91	3.0E-65	6912385	NT	Homo sapiens rab6 GTPase activating protein (GAP and centrosome-associated) (GAPCENA), mRNA
9969	22677	35820	1.44	3.0E-65	BE787366.1	EST_HUMAN	601479688F1 NIH_MGC_58 Homo sapiens cDNA clone IMAGE:3882405 5'
11363	23174	36402	11.12	3.0E-65	AA430006.1	EST_HUMAN	z65a06.r1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:781042 5'
3399	16157	28809	5.75	2.0E-65	BF680294.1	EST_HUMAN	602155062F1 NIH_MGC_83 Homo sapiens cDNA clone IMAGE:4295966 5'
6442	19210		2.48	2.0E-65	BE263373.1	EST_HUMAN	601190883F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3534741 5'
7032	19724	32780	32.07	2.0E-65	BF576922.1	EST_HUMAN	602134359F1 NIH_MGC_81 Homo sapiens cDNA clone IMAGE:4289295 5'
8744	21436	34582	1.08	2.0E-65	AK024463.1	NT	Homo sapiens mRNA for FLJ00056 protein, partial cds
8744	21436	34583	1.06	2.0E-65	AK024463.1	NT	Homo sapiens mRNA for FLJ00056 protein, partial cds
10552	23248	36485	2	2.0E-65	11419247	NT	Homo sapiens SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily d, member 3 (SMARCD3), mRNA
11869	24515		3.65	2.0E-65	AA307904.1	EST_HUMAN	EST178755 Colon carcinoma (HCC) cell line Homo sapiens cDNA 5' end similar to similar to endogenous retrovirus
12431	25156		2.2	2.0E-65	BF246086.1	EST_HUMAN	601854033F1 NIH_MGC_57 Homo sapiens cDNA clone IMAGE:4073769 5'
89	12915		1.59	1.0E-65	BF125544.1	EST_HUMAN	601763488F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:4028501 5'
526	13310	25043	1.44	1.0E-65	7657495	NT	Homo sapiens putative Rab5 GDP/GTP exchange factor homologue (RABEX5), mRNA
2033	14768	27498	1.29	1.0E-65	AB040946.1	NT	Homo sapiens mRNA for KIAA1513 protein, partial cds
3365	16124	28781	0.81	1.0E-65	BE466881.1	EST_HUMAN	h224a09.x1 NCI_CGAP_G08 Homo sapiens cDNA clone IMAGE:3208888 3'
3980	16728	28362	2.47	1.0E-65	4504082	NT	Homo sapiens glypican 4 (GPC4) mRNA
3980	16728	28363	2.47	1.0E-65	4504082	NT	Homo sapiens glypican 4 (GPC4) mRNA
4183	16923	29551	2.01	1.0E-65	AW029340.1	EST_HUMAN	wx09c09.x1 NCI_CGAP_Gas4 Homo sapiens cDNA clone IMAGE:2543152 3'
4183	16923	29552	2.01	1.0E-65	AW029340.1	EST_HUMAN	wx09c09.x1 NCI_CGAP_Gas4 Homo sapiens cDNA clone IMAGE:2543152 3'
8152	20846	33977	2.04	1.0E-65	AW820481.1	EST_HUMAN	QV2-ST0298-140200-042-f12 ST0298 Homo sapiens cDNA
8152	20846	33978	2.04	1.0E-65	AW820481.1	EST_HUMAN	QV2-ST0298-140200-042-f12 ST0298 Homo sapiens cDNA

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Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
8178	20872	34006	0.58	1.0E-65	BE732118.1	EST_HUMAN	601566124F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3841012 5'
8178	20872	34007	0.58	1.0E-65	BE732118.1	EST_HUMAN	601566124F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3841012 5'
8218	20912	34047	2.03	1.0E-65	AU141295.1	EST_HUMAN	AU141295 THYR01 Homo sapiens cDNA clone THYR01000356 5'
8218	20912	34048	2.03	1.0E-65	AU141295.1	EST_HUMAN	AU141295 THYR01 Homo sapiens cDNA clone THYR01000356 5'
8739	21431	34576	1.21	1.0E-65	BF698707.1	EST_HUMAN	602126239F1 NIH_MGC_56 Homo sapiens cDNA clone IMAGE:4283313 5'
8918	21609	34752	2.62	1.0E-65	AU129040.1	EST_HUMAN	AU129040 NT2RP2 Homo sapiens cDNA clone NT2RP2004714 5'
8918	21609	34753	2.36	1.0E-65	AU129040.1	EST_HUMAN	AU129040 NT2RP2 Homo sapiens cDNA clone NT2RP2004714 5'
8929	21620	34848	1.96	1.0E-65	11431994	NT	AU129040 NT2RP2 Homo sapiens cDNA clone NT2RP2004714 5'
9007	21697	35124	5.05	1.0E-65	AU191716.1	EST_HUMAN	Homo sapiens inositol 1,4,5-triphosphate receptor, type 1 (ITPR1), mRNA
9377	21952	35643	1.11	1.0E-65	AU153793.1	EST_HUMAN	Homo sapiens KIAA0655 gene product (KIAA0655), mRNA
9785	22436	36064	0.6	1.0E-65	AA069559.1	EST_HUMAN	Homo sapiens KIAA0655 gene product (KIAA0655), mRNA
10200	22848	36346	1.01	1.0E-65	AB037832.1	NT	Homo sapiens KIAA0655 gene product (KIAA0655), mRNA
10470	23116	36477	1.68	1.0E-65	M26187.1	NT	Homo sapiens KIAA0655 gene product (KIAA0655), mRNA
10546	23242	36610	8.53	1.0E-65	BF698707.1	EST_HUMAN	Homo sapiens KIAA0655 gene product (KIAA0655), mRNA
10676	23367	37018	2.24	1.0E-65	BF698707.1	EST_HUMAN	Homo sapiens KIAA0655 gene product (KIAA0655), mRNA
11075	23745	37122	2.28	1.0E-65	AI621017.1	EST_HUMAN	Homo sapiens KIAA0655 gene product (KIAA0655), mRNA
11172	23839	37122	2.65	1.0E-65	AI621017.1	EST_HUMAN	Homo sapiens KIAA0655 gene product (KIAA0655), mRNA
12013	24546	31086	5.92	1.0E-65	11418041	NT	Homo sapiens KIAA0655 gene product (KIAA0655), mRNA
12108	24604	31086	1.97	1.0E-65	11418248	NT	Homo sapiens KIAA0655 gene product (KIAA0655), mRNA
12519	24867	25531	1.31	9.0E-66	AL160311.1	NT	Homo sapiens KIAA0655 gene product (KIAA0655), mRNA
69	12897	25532	1.31	9.0E-66	AL160311.1	NT	Homo sapiens KIAA0655 gene product (KIAA0655), mRNA
69	12897	25532	1.88	9.0E-66	5031980	NT	Homo sapiens KIAA0655 gene product (KIAA0655), mRNA
1332	14081	26756	1.98	9.0E-66	M87299.1	NT	Homo sapiens KIAA0655 gene product (KIAA0655), mRNA
1332	14081	26757	5.51	9.0E-66	AA424304.1	EST_HUMAN	Homo sapiens KIAA0655 gene product (KIAA0655), mRNA
1467	14214	30009	0.77	8.0E-66	AA424304.1	EST_HUMAN	Homo sapiens KIAA0655 gene product (KIAA0655), mRNA
4842	17376	30009	2.99	7.0E-66	BE064410.1	EST_HUMAN	Homo sapiens KIAA0655 gene product (KIAA0655), mRNA
11319	24010	29698	1.15	6.0E-66	AI924653.1	EST_HUMAN	Homo sapiens KIAA0655 gene product (KIAA0655), mRNA
4332	17071	29698	1.15	6.0E-66	AI924653.1	EST_HUMAN	Homo sapiens KIAA0655 gene product (KIAA0655), mRNA

Table 4
Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
							wn57h07.x1 NCI_CGAP_Lu19 Homo sapiens cDNA clone IMAGE:2449597 3' similar to WP.F15G9.4A
4332	17071	29700	1.15	6.0E-66	A1924653.1	EST_HUMAN	CE18595;
8333	21026		0.48	6.0E-66	BE178663.1	EST_HUMAN	PM2-HT0604-030300-001-b06 HT0604 Homo sapiens cDNA
11108	23778	37052	3.14	6.0E-66	XG9181.1	NT	H.sapiens mRNA for ribosomal protein L31
1346	14094	26769	1.45	5.0E-66	BE064410.1	EST_HUMAN	RC4-BT0311-141198-011-h06 BT0311 Homo sapiens cDNA
5046	17765	30382	0.74	5.0E-66	BE898644.1	EST_HUMAN	607681592F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3951791 5'
5046	17765	30383	0.74	5.0E-66	BE898644.1	EST_HUMAN	607681592F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3951791 5'
9194	21864	35028	16.11	5.0E-66	11420557	NT	Homo sapiens thyroid hormone receptor binding protein (AIB3), mRNA
773	13545	26206	0.98	4.0E-66	6679816	NT	Mus musculus fragile X mental retardation syndrome 1 homolog (Fmr1), mRNA
1729	14471	27170	1.14	4.0E-66	AW897798.1	EST_HUMAN	RC1-NN0063-100500-022-a02 NN0063 Homo sapiens cDNA
2278	15004	27744	1.83	4.0E-66	X89211.1	NT	H.sapiens DNA for endogenous retroviral like element
2477	15195		3.02	4.0E-66	AJ233364.1	NT	Homo sapiens germ-line DNA upstream of Jkappa locus
4733	17465		10.89	4.0E-66	9635487	NT	Human endogenous retrovirus, complete genome
							Homo sapiens methylene tetrahydrofolate dehydrogenase (NAD+ dependent), methenyltetrahydrofolate
5463	18262	31153	3.73	4.0E-66	11428643	NT	cyclohydrolase (MTHFD2), mRNA
5657	18452	31366	1.15	4.0E-66	AW93919.1	EST_HUMAN	QV1-DT0069-110200-067-g10 DT0069 Homo sapiens cDNA
6757	17926	30561	4.83	4.0E-66	AW965473.1	EST_HUMAN	EST377546 MAGE resequences, MAGI Homo sapiens cDNA
							Homo sapiens cAMP-regulated guanine nucleotide exchange factor 1 (cAMP-GEF1) mRNA, complete cds
7031	19723	32779	7.93	4.0E-66	U78168.1	NT	Homo sapiens methylene tetrahydrofolate dehydrogenase (NAD+ dependent), methenyltetrahydrofolate
							cyclohydrolase (MTHFD2), mRNA
7529	18282	31153	0.72	4.0E-66	11428643	NT	Homo sapiens hypothetical protein FLJ20116 (FLJ20116), mRNA
7976	20671	33794	5.63	4.0E-66	11421638	NT	Homo sapiens endogenous retrovirus pHE.1 (ERV9)
8034	20729	33862	0.73	4.0E-66	X57147.1	NT	Human endogenous retrovirus pHE.1 (ERV9)
10556	23252	36489	1.97	4.0E-66	BF507493.1	EST_HUMAN	U1-H-BW1-amr-e-10-Q-U1 nci CGAP Sub7 Homo sapiens cDNA clone IMAGE:3070747 3'
11351	24041	37344	1.28	4.0E-66	AB023215.1	NT	Homo sapiens mRNA for KIAA0998 protein, partial cds
							Homo sapiens solute carrier family 25 (mitochondrial carrier; adenine nucleotide translocator), member 5
1407	14154	26835	10.96	3.0E-66	4502098	NT	(SLC25A5), nuclear gene encoding mitochondrial protein, mRNA
							Homo sapiens solute carrier family 25 (mitochondrial carrier; adenine nucleotide translocator), member 5
1407	14154	26836	10.96	3.0E-66	4502098	NT	(SLC25A5), nuclear gene encoding mitochondrial protein, mRNA
							y227g12.1 Soares multiple sclerosis 2_NbH-MSP Homo sapiens cDNA clone IMAGE:284326 5' similar to
1975	14711	27429	1.16	3.0E-66	N55323.1	EST_HUMAN	SW:H2B1_TIGCA P35068 HISTONE H2B.1/H2B.2. [2] PIR:B56612;
							y227g12.1 Soares multiple sclerosis 2_NbH-MSP Homo sapiens cDNA clone IMAGE:284326 5' similar to
1975	14711	27430	1.16	3.0E-66	N55323.1	EST_HUMAN	SW:H2B1_TIGCA P35068 HISTONE H2B.1/H2B.2. [2] PIR:B56612;

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
1975	14711	27431	1.16	3.0E-66	N55323.1	EST_HUMAN	y27g12.1 Soares, multiple sclerosis_2NbhMSP Homo sapiens cDNA clone IMAGE:284326 5' similar to SW:H2B1_TIGCA P35068 HISTONE H2B.1/H2B.2 [2] PIR:B66612;
2711	15418	28158	3.54	3.0E-66	11141880	NT	Homo sapiens TGF(beta)-induced transcription factor 2 (TGIF2), mRNA
3115	15880	28520	6.3	3.0E-66	7682223	NT	Homo sapiens KIAA0649 gene product (KIAA0649), mRNA
5380	18180	30870	1.14	3.0E-66	AB020698.1	NT	Homo sapiens protein kinase C beta-II type (PRKCB1), mRNA, complete cds
5490	18289	31186	0.73	3.0E-66	M13975.1	NT	Homo sapiens NIPSNAP, C. elegans, homolog 1 (NIPSNAP1), mRNA
5886	18479	31397	1.92	3.0E-66	11417946	NT	Homo sapiens NIPSNAP, C. elegans, homolog 1 (NIPSNAP1), mRNA
5886	18479	31398	1.92	3.0E-66	11417946	NT	Homo sapiens NIPSNAP, C. elegans, homolog 1 (NIPSNAP1), mRNA
9425	22103	35275	0.82	3.0E-66	AK024453.1	NT	Homo sapiens mRNA for FLJ00045 protein, partial cds
9619	22272	35459	0.52	3.0E-66	11417118	NT	Homo sapiens KIAA0433 protein (KIAA0433), mRNA
9973	22621	35828	0.8	3.0E-66	7019480	NT	Homo sapiens protocadherin beta 1 (PCDH-beta1), mRNA
10420	23068	36287	0.97	3.0E-66	AF155659.1	NT	Homo sapiens molybdenum cofactor biosynthesis protein E (MCBPE) mRNA, complete cds
11494	24095	37408	6.16	3.0E-66	5453949	NT	Homo sapiens protein phosphatase 2, regulatory subunit B (B56), alpha isoform (PPP2R5A) mRNA
11808	24396	37730	1.57	3.0E-66	AF223391.1	NT	Homo sapiens calcium channel alpha1E subunit (CACNA1E) gene, exons 7-49, and partial cds, alternatively spliced
50	12879	25505	2.15	2.0E-66	7657334	NT	Homo sapiens Mtschapan/NIK-related kinase (MINK), mRNA
50	12879	25506	2.15	2.0E-66	7657334	NT	Homo sapiens Mtschapan/NIK-related kinase (MINK), mRNA
413	12824	25437	1.76	2.0E-66	4505524	NT	Homo sapiens origin recognition complex, subunit 5 (yeast homolog)-like (ORC5L) mRNA, and translated products
413	12824	25438	1.76	2.0E-66	4505524	NT	Homo sapiens origin recognition complex, subunit 5 (yeast homolog)-like (ORC5L) mRNA, and translated products
1819	14558	27272	2.05	2.0E-66	AL163301.2	NT	Homo sapiens chromosome 21 segment HS21C101
3510	16266	28920	0.77	2.0E-66	8923290	NT	Homo sapiens hypothetical protein FLJ20309 (FLJ20309), mRNA
3747	16500	29134	0.68	2.0E-66	AL117233.1	NT	Novel human gene mapping to chromosome 1
4044	16789	29417	0.8	2.0E-66	AF108389.1	NT	Homo sapiens sodium/calcium exchanger isoform NaCa3 (NCX1) mRNA, complete cds
4607	17342	29673	9.48	2.0E-66	AJ133267.2	NT	Homo sapiens HLA-B gene for human leucocyte antigen B
4607	17342	29674	9.48	2.0E-66	AJ133267.2	NT	Homo sapiens HLA-B gene for human leucocyte antigen B
4607	17342	29674	9.48	2.0E-66	AJ133267.2	NT	Homo sapiens HLA-B gene for human leucocyte antigen B
5726	18518	31439	1.3	2.0E-66	AW968854.1	EST_HUMAN	EST330930 MAGE resequences, MAGJ Homo sapiens cDNA
5726	18518	31440	1.3	2.0E-66	AW968854.1	EST_HUMAN	EST330930 MAGE resequences, MAGJ Homo sapiens cDNA
8746	21438	34585	2.26	2.0E-66	N45480.1	EST_HUMAN	y59c02.1 Soares, multiple sclerosis_2NbhMSP Homo sapiens cDNA clone IMAGE:277826 5'
12329	25370		2.37	2.0E-66	11418318	NT	Homo sapiens G-2 and S-phase expressed 1 (GTSE1), mRNA
1878	14422		1.15	1.0E-66	BE887173.1	EST_HUMAN	601506378F1 NIH_MGC 71 Homo sapiens cDNA clone IMAGE:3908931 5'
2895	15692	28309	1.36	1.0E-66	AV171817.1	EST_HUMAN	AV171817 DCB Homo sapiens cDNA clone DCBADCO7 5'

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
2895	15662	28310	1.36	1.0E-66	AV717817.1	EST_HUMAN	AV717817 DCB Homo sapiens cDNA clone DCBADC07 5'
4352	15662	28309	3.81	1.0E-66	AV717817.1	EST_HUMAN	AV717817 DCB Homo sapiens cDNA clone DCBADC07 5'
4352	15662	28310	3.81	1.0E-66	AV717817.1	EST_HUMAN	AV717817 DCB Homo sapiens cDNA clone DCBADC07 5'
5297	18102	30761	5.96	1.0E-66	BF-673088.1	EST_HUMAN	602152996F1 NIH_MGC_81 Homo sapiens cDNA clone IMAGE:4294151 5'
5692	18486	31408	0.77	1.0E-66	BE765232.1	EST_HUMAN	IL2-NT0101-280700-116-E04 NT0101 Homo sapiens cDNA
5692	18486	31407	0.77	1.0E-66	BE765232.1	EST_HUMAN	IL2-NT0101-280700-116-E04 NT0101 Homo sapiens cDNA
6839	19501	32526	1.57	1.0E-66	BF328623.1	EST_HUMAN	RC5-BN0193-010900-034-G06 BN0193 Homo sapiens cDNA
8357	21050	34189	1.19	1.0E-66	AA668858.1	EST_HUMAN	aa80a04.s1 NCI_CGAP_GC81 Homo sapiens cDNA clone IMAGE:827262 3'
9326	21993	35164	0.84	1.0E-66	AA018828.1	EST_HUMAN	zs57e12.r1 Soares retina N2b4HR Homo sapiens cDNA clone IMAGE:363118 5'
10270	22918	36129	0.92	1.0E-66	AV748749.1	EST_HUMAN	AV748749 NPC Homo sapiens cDNA clone NPCBVA05 5'
10270	22918	36130	0.92	1.0E-66	AV748749.1	EST_HUMAN	AV748749 NPC Homo sapiens cDNA clone NPCBVA05 5'
10862	23542	36789	2.48	1.0E-66	AF111187.2	NT	Homo sapiens jun dimerization protein gene, partial cds; cfos gene, complete cds; and unknown gene
11509	24109	37422	1.8	1.0E-66	AW968744.1	EST_HUMAN	EST380820 MAGI2 resequences, MAGJ Homo sapiens cDNA
12113	24606		2.51	9.0E-67	11418177	NT	Homo sapiens Ran GTPase activating protein 1 (RANGAP1), mRNA
371	13198	25841	1.52	7.0E-67	AW162232.1	EST_HUMAN	au75d02.x1 Schneider fetal brain 00004 Homo sapiens cDNA clone IMAGE:2782083 3' similar to gb:M37104 ATP SYNTHASE COUPLING FACTOR 6, MITOCHONDRIAL PRECURSOR (HUMAN);
1361	14109	26784	2.89	7.0E-67	AA383416.1	EST_HUMAN	EST96812 Testis I Homo sapiens cDNA 5' end similar to C. elegans hypothetical protein, cosmid ZK353
1547	14293	26979	1.38	7.0E-67	W85947.1	EST_HUMAN	zh56b05.r1 Soares fetal_liver_spleen_1NFLS_S1 Homo sapiens cDNA clone IMAGE:416049 5'
1547	14293	26980	1.38	7.0E-67	W85947.1	EST_HUMAN	zh56b05.r1 Soares fetal_liver_spleen_1NFLS_S1 Homo sapiens cDNA clone IMAGE:416049 5'
2026	14761	27489	2.06	7.0E-67	7657243	NT	Homo sapiens inositol 1,3,4-triphosphate 5/6 kinase (ITPK1), mRNA
2026	14761	27490	2.06	7.0E-67	7657243	NT	Homo sapiens inositol 1,3,4-triphosphate 5/6 kinase (ITPK1), mRNA
2813	13196	25841	3.4	7.0E-67	AW162232.1	EST_HUMAN	au75d02.x1 Schneider fetal brain 00004 Homo sapiens cDNA clone IMAGE:2782083 3' similar to gb:M37104 ATP SYNTHASE COUPLING FACTOR 6, MITOCHONDRIAL PRECURSOR (HUMAN);
5989	18770	31733	0.78	7.0E-67	10190695	NT	Homo sapiens zinc finger protein 304 (ZNF304), mRNA
6177	18954	31927	2.02	7.0E-67	11425572	NT	Homo sapiens adaptor-related protein complex 2, beta 1 subunit (AP2B1), mRNA
6177	18954	31928	2.02	7.0E-67	11425572	NT	Homo sapiens adaptor-related protein complex 2, beta 1 subunit (AP2B1), mRNA
6623	19385	32399	1.29	7.0E-67	4885084	NT	Homo sapiens ATPase, H+ transporting, lysosomal (vacuolar proton pump) non-catalytic accessory protein 1A (110/116kD) (ATP9N1A), mRNA
7531	20201	33296	1	7.0E-67	11419212	NT	Homo sapiens mitochondrial carrier family protein (LOC555972), mRNA
7531	20201	33297	1	7.0E-67	11419212	NT	Homo sapiens mitochondrial carrier family protein (LOC555972), mRNA
8222	20916	34052	0.59	7.0E-67	4557732	NT	Homo sapiens latent transforming growth factor beta binding protein 2 (LTBP2), mRNA
8830	21522	34669	0.58	7.0E-67	10835044	NT	Homo sapiens retinaldehyde dehydrogenase 2 (RALDH2), mRNA

Table 4

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11256	23918		1.56	7.0E-67	11434579	NT	Homo sapiens fucosyltransferase 8 (alpha (1,6) fucosyltransferase) (FUT8), mRNA
11677	24272	37594	6.37	7.0E-67	U82486.1	NT	Human cytochrome oxidase subunit VIa (COX6A1P) pseudogene, complete cds
11898	24465	37803	2.24	7.0E-67	11430460	NT	Homo sapiens low density lipoprotein-related protein 2 (LRP2), mRNA
11898	24465	37804	2.24	7.0E-67	11430460	NT	Homo sapiens low density lipoprotein-related protein 2 (LRP2), mRNA
12355	24759	31061	1.58	7.0E-67	AB011399.1	NT	Homo sapiens gene for A-F-6, complete cds
548	13329	25960	2.12	6.0E-67	X68968.1	NT	H. sapiens mRNA for acetyl-CoA carboxylase
776	13560	26211	0.92	6.0E-67	Z17227.1	NT	Homo sapiens mRNA for transmembrane receptor protein
1250	13999	26666	1.29	6.0E-67	Y14320.1	NT	Homo sapiens PMP69 gene, exons 3, 4, 5, 6 & 7
3166	15929	28578	1.17	6.0E-67	4506434	NT	Homo sapiens retinoblastoma 1 (including osteosarcoma) (RB1) mRNA
3431	16187	28835	1.64	6.0E-67	4507332	NT	Homo sapiens Synapsin III (SYN3) mRNA, and translated products
3431	16187	28836	1.64	6.0E-67	4507332	NT	Homo sapiens Synapsin III (SYN3) mRNA, and translated products
4106	16849	29474	0.7	6.0E-67	AL163201.2	NT	Homo sapiens chromosome 21 segment HS21C001
4106	16849	29475	0.7	6.0E-67	AL163201.2	NT	Homo sapiens chromosome 21 segment HS21C001
4657	17391	30025	5.01	6.0E-67	7657020	NT	Homo sapiens DKFZp434P211 protein (DKFZP434P211), mRNA
4657	17391	30026	5.01	6.0E-67	7657020	NT	Homo sapiens DKFZp434P211 protein (DKFZP434P211), mRNA
5101	17635		1.23	6.0E-67	4507848	NT	Homo sapiens ubiquitin specific protease 13 (isopeptidase T-3) (USP13) mRNA
3215	15978	28629	1.91	5.0E-67	AF009680.1	NT	Homo sapiens T cell receptor beta locus, TCRBV7S3A2 to TCRBV12S2 region
10905	23885		1.69	5.0E-67	BE010038.1	EST_HUMAN	PM3-BN0176-100400-001-g04 BN0176 Homo sapiens cDNA
1305	14054	26728	0.93	4.0E-67	R90819.1	EST_HUMAN	Yn02d11.1 Soares adult brain N2b4HB55Y Homo sapiens cDNA IMAGE:167253 5'
7920	20615	33743	0.82	4.0E-67	AI733032.1	EST_HUMAN	Q67305 x3 NCL CGAP Kid3 Homo sapiens cDNA clone IMAGE:1493288 3' similar to SW:Z33A_HUMAN
8281	20975		1.24	4.0E-67	BF37321.1	EST_HUMAN	RCO-HT0834-150900-026-c03 HT0834 Homo sapiens cDNA
10986	23669		1.39	4.0E-67	AA714284.1	EST_HUMAN	hw08a01.s1 NCL CGAP SS1 Homo sapiens cDNA clone IMAGE:1238472 3' similar to TR:O10385 O10385
2816	13396	26031	1.55	3.0E-67	AA333768.1	EST_HUMAN	PRO-POL-DUTPASE POLYPROTEIN ;
3446	16202	28852	0.98	3.0E-67	BE084410.1	EST_HUMAN	EST37903 Embryo, 9 week Homo sapiens cDNA 5' end
4646	17380	30012	2.87	3.0E-67	AW899159.1	EST_HUMAN	RC4-BT0311-141189-011-h06 BT0311 Homo sapiens cDNA
8081	20775	33905	1.53	3.0E-67	BF196068.1	EST_HUMAN	MR3-SN0068-040500-008-f01 SN0068 Homo sapiens cDNA
11224	23887		14.39	3.0E-67	AA927874.1	EST_HUMAN	hr8105.x1 NCL CGAP Kid1 Homo sapiens cDNA clone IMAGE:3134913 3' similar to SW:RHOP_MOUSE
183	12996	25635	0.81	2.0E-67	BE348354.1	EST_HUMAN	Q61085 GTP-RHO BINDING PROTEIN 1 ;
825	13595	26265	7.3	2.0E-67	AW816405.1	EST_HUMAN	om18b07.s1 Soares NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:1541365 3'
1083	13841		1.75	2.0E-67	AF167460.1	NT	hw16g09.x1 NCL CGAP Lu24 Homo sapiens cDNA clone IMAGE:3183136 3' similar to WP:F23H11.9
							CE09617 ;
							QV4-ST0234-181199-037-f05 ST0234 Homo sapiens cDNA
							Homo sapiens double stranded RNA activated protein kinase (PKR) gene, exons 2a, 2, 3, and 4

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
1877	14614	27325	1.36	2.0E-67	BE303037.1	EST_HUMAN	ba72g05.y1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:2805976 5' similar to TR:094892 O94892 KIAA0798 PROTEIN.;
1877	14614	27326	1.36	2.0E-67	BE303037.1	EST_HUMAN	ba72g05.y1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:2805976 5' similar to TR:094892 O94892 KIAA0798 PROTEIN.;
2235	14963	27702	1.3	2.0E-67	11422946	NT	ba72g05.y1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:2805976 5' similar to TR:094892 O94892 KIAA0798 PROTEIN.;
2235	14963	27703	1.3	2.0E-67	11422946	NT	Homo sapiens hypothetical protein dJ482O23.2 (D482O23.2), mRNA
2384	15105	27845	1.09	2.0E-67	AF308561.1	NT	Homo sapiens KRAB zinc finger protein ZFQR mRNA, complete cds
2432	15153	27887	1.28	2.0E-67	4758795	NT	Homo sapiens developmentally regulated GTP-binding protein 1 (DRG1), mRNA
3460	16216	28870	3.8	2.0E-67	AA625755.1	EST_HUMAN	zlu51g01.s1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:745392 3'
3984	16732	29366	3.03	2.0E-67	AL163300.2	NT	Homo sapiens chromosome 21 segment HS21C100
5981	18762	31728	0.6	2.0E-67	AL049784.1	NT	Novel human gene mapping to chromosome 13
6034	18814	31774	5.54	2.0E-67	BF240758.1	EST_HUMAN	601875351F1 NIH_MGC_55 Homo sapiens cDNA clone IMAGE:4091893 5'
6203	18978	31956	2.46	2.0E-67	AB051763.1	NT	Homo sapiens mRNA for NADPH-cytochrome P-450 reductase, complete cds
6203	18978	31957	2.46	2.0E-67	AB051763.1	NT	Homo sapiens mRNA for NADPH-cytochrome P-450 reductase, complete cds
6545	19310	32315	0.76	2.0E-67	AL120542.1	EST_HUMAN	DKFZp761A229_r1 761 (synonym: hamy2) Homo sapiens cDNA clone DKFZp761A229 5'
8456	21148	34290	0.82	2.0E-67	AA334609.1	EST_HUMAN	EST38850 Embryo, 9 week Homo sapiens cDNA 5' end similar to similar to cerebellin
8456	21148	34291	0.82	2.0E-67	AA334609.1	EST_HUMAN	EST38850 Embryo, 9 week Homo sapiens cDNA 5' end similar to similar to cerebellin
8895	21586	34724	1.21	2.0E-67	AW602635.1	EST_HUMAN	RC4-BT0566-170100-011-c07 BT0566 Homo sapiens cDNA
8895	21586	34725	1.21	2.0E-67	AW602635.1	EST_HUMAN	RC4-BT0566-170100-011-c07 BT0566 Homo sapiens cDNA
9468	22078	35246	0.83	2.0E-67	AV731333.1	EST_HUMAN	AV731333 HTF Homo sapiens cDNA clone HTFARD03 5'
9608	22261	35447	0.97	2.0E-67	AW283624.1	EST_HUMAN	UI-H-B12-ahn-e-10-0-UJ.s1 NCI_CGAP_Sub4 Homo sapiens cDNA clone IMAGE:2727283 3'
10870	23646	36899	3.72	2.0E-67	BF034485.1	EST_HUMAN	601455262F1 NIH_MGC_66 Homo sapiens cDNA clone IMAGE:3858975 5'
10988	25433		4.67	2.0E-67	11436448	NT	Homo sapiens KIAA0985 protein (KIAA0985), mRNA
11193	23858	37145	2.11	2.0E-67	BE295714.1	EST_HUMAN	601175762F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:3531038 5'
11434	23201	36433	1.96	2.0E-67	BF377169.1	EST_HUMAN	PM2-TN0103-040900-001-c02 TN0103 Homo sapiens cDNA
12235	25231	30819	1.36	2.0E-67	11418189	NT	Homo sapiens thyroid autoantigen 70kD (Ku antigen) (G22P1), mRNA
12527	24874	31018	2.05	2.0E-67	11417877	NT	Homo sapiens gamma-glutamyltransferase 1 (GGT1), mRNA
246	13055	25695	9.34	1.0E-67	4502166	NT	Homo sapiens amyloid beta (A4) precursor protein (protease nexin-II, Alzheimer disease) (APP), mRNA
692	13467	26114	1.01	1.0E-67	AA702784.1	EST_HUMAN	z190b04.s1 Soares_fetal_liver_spleen_1NFUS_5T Homo sapiens cDNA clone IMAGE:448015 3'
11845	24429	37770	8.58	1.0E-67	AI654867.1	EST_HUMAN	wb65c12.x1 NCI_CGAP_GC6 Homo sapiens cDNA clone IMAGE:2310550 3'
2174	14903	27636	2.13	8.0E-68	BE870732.1	EST_HUMAN	601448558F1 NIH_MGC_65 Homo sapiens cDNA clone IMAGE:3652254 5'
3851	16601	29238	4.96	8.0E-68	AA209456.1	EST_HUMAN	zq82h10.r1 Straigene hNT neuron (4937233) Homo sapiens cDNA clone IMAGE:648163 5' similar to SW:SAV_SULAC_Q07590 SAV PROTEIN.;

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF-SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
3851	16601	29239	4.96	8.0E-68	AA209456.1	EST_HUMAN	zq82h10.1 Stratagene hNT neuron (4937233) Homo sapiens cDNA clone IMAGE:648163 5' similar to
8000	20695	33822	0.55	7.0E-68	AB10505.1	EST_HUMAN	SW:SAV_SULAC Q07590 SAV PROTEIN ;
7737	20402	33518	0.56	6.0E-68	AB014520.1	NT	wb89e03.x1 NCI_OGAP_P128 Homo sapiens cDNA clone IMAGE:2312860 3'
10347	22894	36213	2.47	6.0E-68	11422086	NT	Homo sapiens mRNA for KIAA0620 protein, partial cds
11097	23767	37042	1.61	6.0E-68	AF133901.1	NT	Homo sapiens brefeldin A-inhibited guanine nucleotide-exchange protein 2 (BIG2), mRNA
12529	24875		1.78	6.0E-68	BE12554.1	EST_HUMAN	Homo sapiens killer inhibitory receptor 2-2-1 (KIR221) and killer inhibitory receptor 2-2-2 (KIR222) genes, partial cds
12772	25026	30963	1.4	6.0E-68	BF310675.1	EST_HUMAN	601452067F1 NIH_MGC_66 Homo sapiens cDNA clone IMAGE:3855761 5'
800	13572	26233	5.05	5.0E-68	AF231919.1	NT	601894635F2 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:4124144 5'
800	13572	26234	5.05	5.0E-68	AF231919.1	NT	Homo sapiens chromosome 21 unknown mRNA
2783	15488	28226	1.38	5.0E-68	AF231919.1	NT	Homo sapiens chromosome 21 unknown mRNA
3144	15908	28553	3.23	5.0E-68	AB037852.1	NT	Homo sapiens chromosome 21 unknown mRNA
4457	17193	29819	0.73	5.0E-68	AL157845.1	EST_HUMAN	Homo sapiens mRNA for KIAA1431 protein, partial cds
6627	19389	32402	0.61	5.0E-68	7019512	NT	DKFZp547D207_r1 547 (synonym: hfor1) Homo sapiens cDNA clone DKFZp547D207 5'
6627	19389	32403	0.61	5.0E-68	7019512	NT	Homo sapiens RAB3A interacting protein (rab3)-like 1 (RAB3IL1), mRNA
4918	17646		8.55	4.0E-68	P04406	SWISSPROT	Homo sapiens RAB3A interacting protein (rab3)-like 1 (RAB3IL1), mRNA
5098	17817	30434	0.87	4.0E-68	AF157063.1	NT	GLYCERALDEHYDE 3-PHOSPHATE DEHYDROGENASE, LIVER
5874	18661	31602	0.7	4.0E-68	7549804	NT	Homo sapiens sedlin (SEDL) gene, exon 4
6875	19592	32628	6.51	4.0E-68	11055991	NT	Homo sapiens serine carboxypeptidase 1 precursor protein (HSCP1), mRNA
6875	19592	32630	6.51	4.0E-68	11055991	NT	Homo sapiens serine carboxypeptidase 1 precursor protein (HSCP1), mRNA
7582	20250	33356	0.66	4.0E-68	7661683	NT	Homo sapiens DKFZp586L0724 protein (DKFZp586L0724), mRNA
8938	21629	34771	5.05	4.0E-68	D63479.2	NT	Homo sapiens mRNA for KIAA0145 protein, partial cds
8938	21629	34772	5.05	4.0E-68	D63479.2	NT	Homo sapiens mRNA for KIAA0145 protein, partial cds
9077	21766	34929	3.08	4.0E-68	AB040918.1	NT	Homo sapiens mRNA for KIAA1485 protein, partial cds
10925	23605	36854	1.68	4.0E-68	4506282	NT	Homo sapiens protein tyrosine phosphatase type IVA, member 1 (PTP4A1) mRNA
10925	23605	36855	1.68	4.0E-68	4506282	NT	Homo sapiens protein tyrosine phosphatase type IVA, member 1 (PTP4A1) mRNA
11115	23785	37061	1.26	4.0E-68	AB040948.1	NT	Homo sapiens protein tyrosine phosphatase type IVA, member 1 (PTP4A1) mRNA
11828	24412	37749	1.39	4.0E-68	AJ251760.1	NT	Homo sapiens NESP55, GNAS1 antisense (partial) and Xlaiphas (partial) genes
11864	24448	37789	12.15	4.0E-68	4758267	NT	Homo sapiens echinoderm microtubule-associated protein-like (EMAPL), mRNA
11864	24448	37790	12.15	4.0E-68	4758267	NT	Homo sapiens echinoderm microtubule-associated protein-like (EMAPL), mRNA
3653	16408	29045	5.37	3.0E-68	AF236082.1	NT	Mus musculus G-protein coupled receptor GPR73 (Gpr73) mRNA, complete cds
9357	20428		5.92	3.0E-68	A1342323.1	EST_HUMAN	q33h02.x1 Soares fetal_lung_NbHL19W Homo sapiens cDNA clone IMAGE:1950291 3' similar to contains THR12 THR repetitive element ;

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
10369	23045	36261	1.23	3.0E-68	F28784.1	EST_HUMAN	HSPD18178 HM3 Homo sapiens cDNA clone s3000023D09
2865	17883		15.31	2.0E-68	D00522.1	NT	Citellus longicaudatus mRNA for EF-1 alpha, complete cds
4633	17368	30004	1.38	2.0E-68	AB008681.1	NT	Homo sapiens gene for activin receptor type IIB, complete cds
6776	19520		9.54	2.0E-68	R45088.1	EST_HUMAN	y938g04.s1 Soares infant brain 1NIB Homo sapiens cDNA clone IMAGE:34896 3'
6963	19445	32462	5.38	2.0E-68	BF035316.1	EST_HUMAN	601458514F1 NIH_MGC_68 Homo sapiens cDNA clone IMAGE:34896 3'
7270	19954	33030	0.73	2.0E-68	BF336745.1	EST_HUMAN	IL3-CT0534-180900-273-A01 CT0534 Homo sapiens cDNA
8848	21539	34685	0.63	2.0E-68	Q05669	SWISSPROT	FORMIN 4 (LIMB DEFORMITY PROTEIN)
10505	23151	36378	0.75	2.0E-68	N78483.1	EST_HUMAN	y278d07.r1 Soares_multiple_sclerosis_2NbhMSP Homo sapiens cDNA clone IMAGE:289165 5'
11210	23673	37160	1.66	2.0E-68	BF330594.1	EST_HUMAN	QV0-BT0074-130999-014-g04 BT0074 Homo sapiens cDNA
77	12803	25541	1	1.0E-68	4505222	NT	Homo sapiens meningioma (disrupted in balanced translocation) 1 (MN1), mRNA
289	13095	25737	13	1.0E-68	AW816405.1	EST_HUMAN	QV4-ST0234-181199-037-105 ST0234 Homo sapiens cDNA
2249	14877	27715	1.03	1.0E-68	AB011149.1	NT	Homo sapiens mRNA for KIAA0577 protein, complete cds
2249	14877	27716	1.03	1.0E-68	AB011149.1	NT	Homo sapiens mRNA for KIAA0577 protein, complete cds
3981	16739	26373	0.95	1.0E-68	BE26032.1	EST_HUMAN	601177002F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:3532344 5'
4969	17694	30302	0.92	1.0E-68	AA897343.1	EST_HUMAN	ai47g12.s1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:1460518 3'
5239	18045	30674	1.37	1.0E-68	7662349	NT	Homo sapiens cell recognition molecule Caspr2 (KIAA0868), mRNA
7576	20245	33350	1	1.0E-68	11436716	NT	Homo sapiens MIF2 suppressor (HSM13) mRNA, complete cds
10373	23019	36235	0.8	1.0E-68	AA429538.1	EST_HUMAN	Homo sapiens myosin IC (MYO1C), mRNA
10756	23441	36685	1.85	1.0E-68	11418369	NT	Homo sapiens Interleukin-7 receptor precursor (IL7R) gene, exons 7 and 8 and complete cds
10756	23441	36686	1.85	1.0E-68	11418369	NT	Human protein kinase C substrate 80K-H (PRKCSH) gene, exon 4-5
10819	23502	36741	3.5	1.0E-68	L76416.1	NT	Human protein kinase C substrate 80K-H (PRKCSH) gene, exon 4-5
11148	23815	37098	1.71	1.0E-68	11433277	NT	Homo sapiens CGI-76 protein (LOC51632), mRNA
11226	23889	37176	1.62	1.0E-68	AF043129.1	NT	Homo sapiens CGI-76 protein (LOC51632), mRNA
11270	23931	37223	1.26	1.0E-68	U50319.1	NT	Homo sapiens meningioma (disrupted in balanced translocation) 1 (MN1), mRNA
11270	23931	37224	1.26	1.0E-68	U50319.1	NT	Homo sapiens low density lipoprotein-related protein 2 (LRP2), mRNA
11666	24261	37584	1.48	1.0E-68	11418431	NT	Homo sapiens pre-B-cell colony-enhancing factor (PBEF) mRNA
11666	24261	37585	1.48	1.0E-68	11418431	NT	Homo sapiens pre-B-cell colony-enhancing factor (PBEF) mRNA
12511	12903	25541	2.66	1.0E-68	4505222	NT	Homo sapiens proteasome-associated pad1 homolog (POH1) mRNA
12719	23322	30712	2.11	1.0E-68	11430460	NT	Homo sapiens 26S proteasome-associated pad1 homolog (POH1) mRNA
19	12847	25460	1.16	9.0E-69	5031976	NT	Homo sapiens Epha4 (EPHA4) mRNA
19	12847	25461	1.16	9.0E-69	5031976	NT	
1006	13766	26428	1.41	9.0E-69	5031980	NT	
1006	13766	26427	1.41	9.0E-69	5031980	NT	
2275	15001	27740	1.15	9.0E-69	4756279	NT	

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Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
2275	15001	27741	1.15	9.0E-69	4758279	NT	Homo sapiens EphA4 (EPHA4) mRNA
4109	16852	29478	0.71	9.0E-69	4757867	NT	Homo sapiens V-rat murine sarcoma viral oncogene homolog B1 (BRAF) mRNA
10805	23488		6.5	9.0E-69	AU117241.1	EST_HUMAN	AU117241 HEMBA1 Homo sapiens cDNA clone HEMBA1000968 5'
3381	16140		1.09	8.0E-69	AJ237744.1	NT	Homo sapiens RIBIR gene (partial), exon 12
6259	19033	32008	6.49	7.0E-69	9966912	NT	Homo sapiens actin-related protein 3-beta (ARP3BETA), mRNA
7762	20458	33581	9.09	6.0E-69	AI192764.1	EST_HUMAN	q62h01.x1 Soares_fetal_lung_NHL19W Homo sapiens cDNA clone IMAGE:1743601 3' similar to gbL11566 60S RIBOSOMAL PROTEIN L18 (HUMAN);
7762	20458	33582	9.09	6.0E-69	AI192764.1	EST_HUMAN	q62h01.x1 Soares_fetal_lung_NHL19W Homo sapiens cDNA clone IMAGE:1743601 3' similar to gbL11566 60S RIBOSOMAL PROTEIN L18 (HUMAN);
8873	21564	34709	1.01	6.0E-69	AA826039.1	EST_HUMAN	cd60a03.s1 NCI_CGAP_GCB1 Homo sapiens cDNA clone IMAGE:1372300 3'
507	13291		1.78	4.0E-69	AI873630.1	EST_HUMAN	wm26h11.x1 NCI_CGAP_U14 Homo sapiens cDNA clone IMAGE:2437125 3'
5674	25073	31384	1.42	4.0E-69	BE561063.1	EST_HUMAN	601344705F1 NIH_MGC_8 Homo sapiens cDNA clone IMAGE:3677641 5'
5763	18545	31467	5.28	4.0E-69	AI784973.1	EST_HUMAN	wh57b06.x1 NCI_CGAP_Kd11 Homo sapiens cDNA clone IMAGE:2384819 3' similar to TR:O55137 O55137 ACYL-COA THIOESTERASE.;
6531	19297	32301	2.71	4.0E-69	4557732	NT	Homo sapiens latent transforming growth factor beta binding protein 2 (LTBP2) mRNA
6531	19297	32302	2.71	4.0E-69	4557732	NT	Homo sapiens latent transforming growth factor beta binding protein 2 (LTBP2) mRNA
8812	21504	34651	0.52	4.0E-69	AU118634.1	EST_HUMAN	AU118634 HEMBA1 Homo sapiens cDNA clone HEMBA1006283 5'
377	13202	25848	3.69	3.0E-69	BE268012.1	EST_HUMAN	60110371F1 NIH_MGC_16 Homo sapiens cDNA clone IMAGE:3351352 5'
598	13376	28008	2.32	3.0E-69	AF22112.1	NT	Homo sapiens Smad- and Olf-interacting zinc finger protein mRNA, partial cds
1548	14294		3.19	3.0E-69	T80514.1	EST_HUMAN	yd08a02.r1 Soares infant brain 1N1B Homo sapiens cDNA clone IMAGE:24880 5' similar to SP:A48836 A48836 SPEGF III=EGF REPEAT-CONTAINING FIBROPEL-LIKE PROTEIN - SEA URCHIN ;
5183	17894	37797	3.64	3.0E-69	11418185	NT	Homo sapiens aconitase 2, mitochondrial (ACO2), mRNA
6705	19820		0.67	3.0E-69	AJ277557.1	NT	Homo sapiens dNT-2 gene for mitochondrial 5(3')-deoxyribonucleotidase (dNT-2 gene), exons 1-5
6769	17928	30563	0.74	3.0E-69	11426786	NT	Homo sapiens sperm surface protein (HSS), mRNA
7272	19956	33032	0.68	3.0E-69	AF095703.1	NT	Homo sapiens short chain L-3-hydroxyacyl-CoA dehydrogenase precursor (HADHSC) gene, nuclear gene encoding mitochondrial protein, complete cds
7320	20003	33082	1.83	3.0E-69	U52351.1	NT	Homo sapiens arm-repeat protein NPRAP/neurjungin (CTNND2) mRNA, partial cds
7451	20127	33219	8.32	3.0E-69	AF268075.1	NT	Homo sapiens TRAF6-binding protein T6BP mRNA, complete cds
8270	20994	34106	0.88	3.0E-69	AW138646.1	EST_HUMAN	UI-H-B11-acw-g-01-Q-UI.s1 NCI_CGAP_Sub3 Homo sapiens cDNA clone IMAGE:2715840 3'
8666	21368		0.85	3.0E-69	AA376399.1	EST_HUMAN	EST8807 HSC172 cells II Homo sapiens cDNA 5' end similar to similar to ribosomal protein S18
8313	21980	35152	1.01	3.0E-69	X13223.1	NT	H. sapiens mRNA for N-acetylglucosamide-(beta 1-4)-galactosyltransferase

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Table 4
Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit: Accession No.	Top Hit Database Source	Top Hit Descriptor
9433	22111	35286	2.03	3.0E-69	X06233.1	NT	Human mRNA for calcium-binding protein in macrophages (MRP-14) macrophage migration inhibitory factor (MIF)-related protein
9729	22380	35582	0.75	3.0E-69	5730036	NT	Homo sapiens SEC10 (S. cerevisiae)-like 1 (SEC10L1), mRNA
10538	23235	36468	1.44	3.0E-69	11432120	NT	Homo sapiens ribosomal protein S15a (RPS15A), mRNA
10745	23432		7.81	3.0E-69	AA376399.1	EST_HUMAN	EST8807 HSC172 cells II Homo sapiens cDNA 5' end similar to similar to ribosomal protein S18
12024	24552		5.17	3.0E-69	11419157	NT	Homo sapiens HGC8.2 protein (HGC8.2), mRNA
128	13180	25827	1.64	2.0E-69	AF160252.1	NT	Homo sapiens KIAA0553 protein gene, complete cds; and alpha1b protein gene, partial cds
128	13180	25828	1.64	2.0E-69	AF160252.1	NT	Homo sapiens KIAA0553 protein gene, complete cds; and alpha1b protein gene, partial cds
395	13180	25827	10.33	2.0E-69	AF160252.1	NT	Homo sapiens KIAA0553 protein gene, complete cds; and alpha1b protein gene, partial cds
395	13180	25828	10.33	2.0E-69	AF160252.1	NT	Homo sapiens KIAA0553 protein gene, complete cds; and alpha1b protein gene, partial cds
1878	14815	27327	2.08	2.0E-69	BE257857.1	EST_HUMAN	Homo sapiens KIAA0553 protein gene, complete cds; and alpha1b protein gene, partial cds
2848	15816		3.18	2.0E-69	AA431157.1	EST_HUMAN	601109444F1 NIH_MGC_16 Homo sapiens cDNA clone IMAGE:3350074 5'
8452	21144	34284	1.08	2.0E-69	AA114270.1	EST_HUMAN	zw71g02.1 Soares testis_NHT Homo sapiens cDNA clone IMAGE:781682 5'
1698	14441	27139	1.98	1.0E-69	AF053786.1	NT	zm29g01.1 Stratagene pancreas (#937208) Homo sapiens cDNA clone IMAGE:527088 5'
4962	17667		0.74	1.0E-69	BE409094.1	EST_HUMAN	Rattus norvegicus brain specific cortactin-binding protein CBF90 mRNA, partial cds
5959	18741	31700	0.87	1.0E-69	BE902501.1	EST_HUMAN	601301284F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3635781 5'
5959	18741	31701	0.87	1.0E-69	BE902501.1	EST_HUMAN	601675788F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3958532 5'
6508	19273	32274	4.37	1.0E-69	AW393969.1	EST_HUMAN	601675788F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3958532 5'
6721	19636	32679	1.26	1.0E-69	7682263	NT	QV0-TT0010-031199-045-c07 TT0010 Homo sapiens cDNA
6721	19636	32680	1.26	1.0E-69	7682263	NT	Homo sapiens KIAA0716 gene product (KIAA0716), mRNA
6737	19571	32603	3.01	1.0E-69	AB032873.1	NT	Homo sapiens KIAA0716 gene product (KIAA0716), mRNA
6737	19571	32604	3.01	1.0E-69	AB032873.1	NT	Homo sapiens mRNA for KIAA1147 protein, partial cds
6782	19528	32554	1.14	1.0E-69	BE531007.1	EST_HUMAN	Homo sapiens mRNA for KIAA1147 protein, partial cds
6782	19528	32555	1.14	1.0E-69	BE531007.1	EST_HUMAN	601278532F1 NIH_MGC_39 Homo sapiens cDNA clone IMAGE:3610614 5'
10073	22721	35937	4.91	1.0E-69	BE245070.1	EST_HUMAN	601278532F1 NIH_MGC_39 Homo sapiens cDNA clone IMAGE:3610614 5'
10073	22721	35938	4.91	1.0E-69	BE245070.1	EST_HUMAN	TCBAP1E2678 Pediatric pre-B cell acute lymphoblastic leukemia Baylor-HGSC project=TCBA Homo sapiens cDNA clone TCBAP2678
10168	22816	36034	1.38	1.0E-69	AB014607.1	NT	TCBAP1E2678 Pediatric pre-B cell acute lymphoblastic leukemia Baylor-HGSC project=TCBA Homo sapiens cDNA clone TCBAP2678
10314	22861	36177	0.57	1.0E-69	BF528429.1	EST_HUMAN	Homo sapiens mRNA for KIAA0707 protein, partial cds
10782	23465		10.52	1.0E-69	4504918	NT	602043782F1 NCL CGAP_Bm67 Homo sapiens cDNA clone IMAGE:4181325 5'
11964	24512	37261	1.74	1.0E-69	BF125887.1	EST_HUMAN	Homo sapiens keratin 8 (KRT8) mRNA
12368	24769		4.45	1.0E-69	AB09994.1	EST_HUMAN	601762802F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:4025785 5'
							wf84e08.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2360390 3' similar to contains Alu repetitive element; contains element MIR repetitive element

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
2331	15591	27791	2.08	8.0E-70	AA230303.1	EST_HUMAN	nc13d12.1 NCL CGAP_P1 Homo sapiens cDNA clone IMAGE:1008023
4340	17079	29708	1.93	8.0E-70	L77566.1	NT	Homo sapiens DGS-1 mRNA, 3' end
1806	14546	27260	1.01	7.0E-70	A1497807.1	EST_HUMAN	tm89f01.x1 NCL CGAP_Brn25 Homo sapiens cDNA clone IMAGE:2165305 3'
1808	14546	27261	1.01	7.0E-70	A1497807.1	EST_HUMAN	tm89f01.x1 NCL CGAP_Brn25 Homo sapiens cDNA clone IMAGE:2165305 3'
1823	14660	27371	1.66	7.0E-70	AA282955.1	EST_HUMAN	z115h04.r1 NCL CGAP_GCB1 Homo sapiens cDNA clone IMAGE:713239 5'
2056	14788		2.92	7.0E-70	5031668	NT	Homo sapiens tumor suppressor deleted in oral cancer-related 1 (DOC-1R) mRNA
4199	16940	29566	3.67	7.0E-70	4757723	NT	Homo sapiens adenylate cyclase 3 (ADCY3) mRNA
5395	18195	30888	4.88	7.0E-70	AB032366.1	NT	Homo sapiens MIST mRNA, partial cds
5395	18195	30889	4.88	7.0E-70	AB032369.1	NT	Homo sapiens MIST mRNA, partial cds
6826	19487	32509	2.16	7.0E-70	AJ000052.1	NT	Homo sapiens gene encoding splicing factor SF1, exons 2-8
8330	21023	34159	2.2	7.0E-70	AB037715.1	NT	Homo sapiens mRNA for KIAA1294 protein, partial cds
8330	21023	34160	2.2	7.0E-70	AB037715.1	NT	Homo sapiens mRNA for KIAA1294 protein, partial cds
8622	21314	34457	3.58	7.0E-70	M74099.1	NT	Human displacement protein (CCAAT) mRNA
8622	21314	34458	3.58	7.0E-70	M74099.1	NT	Human displacement protein (CCAAT) mRNA
9055	21744	34902	3.8	7.0E-70	X59841.1	NT	Human PBX3 mRNA
9055	21744	34903	3.8	7.0E-70	X59841.1	NT	Human PBX3 mRNA
9335	20406	33522	3.43	7.0E-70	AF163715.1	NT	Homo sapiens phospholipid scramblase 1 gene, exon 1 and 5' flanking region
9361	20431	33551	2.69	7.0E-70	11525964	NT	Homo sapiens karyopherin beta 2b, transportin (TRN2), mRNA
9361	20431	33552	2.69	7.0E-70	11525964	NT	Homo sapiens karyopherin beta 2b, transportin (TRN2), mRNA
9558	22209	35394	0.57	7.0E-70	4557624	NT	Homo sapiens glutamate-cysteine ligase (gamma-glutamylcysteine synthetase), catalytic (72.8kD) (GLCLC) mRNA
10196	22844	36058	0.62	7.0E-70	AB036429.1	NT	Homo sapiens NDST4 mRNA for N-deacetylase/sulfotransferase 4, complete cds
10196	22844	36059	0.62	7.0E-70	AB036429.1	NT	Homo sapiens NDST4 mRNA for N-deacetylase/sulfotransferase 4, complete cds
11010	23682	36941	1.54	7.0E-70	11428685	NT	Homo sapiens spastic paraplegia 4 (autosomal dominant; spastin) (SPG4), mRNA
11010	23682	36942	1.54	7.0E-70	11428685	NT	Homo sapiens spastic paraplegia 4 (autosomal dominant; spastin) (SPG4), mRNA
11597	24198	37515	1.65	7.0E-70	11526319	NT	Homo sapiens HIR (histone cell cycle regulation defective, S. cerevisiae) homolog A (HIRA), mRNA
11597	24198	37516	1.65	7.0E-70	11526319	NT	Homo sapiens HIR (histone cell cycle regulation defective, S. cerevisiae) homolog A (HIRA), mRNA
851	13621	26291	1.77	6.0E-70	4502166	NT	Homo sapiens amyloid beta (A4) precursor protein (protease nexin-II, Alzheimer disease) (APP), mRNA
2133	14863	27593	1.21	6.0E-70	M30938.1	NT	Human Ku (p70/p80) subunit mRNA, complete cds
2513	15230	27970	1.22	6.0E-70	8923899	NT	Homo sapiens CMP-N-acetylneuraminic acid synthase (LOC55907), mRNA
2555	15598	28003	2.18	5.0E-70	7662307	NT	Homo sapiens KIAA0792 gene product (KIAA0792), mRNA

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
2555	15598	28004	2.18	5.0E-70	7662307	NT	Homo sapiens KIAA0792 gene product (KIAA0792), mRNA
11974	24519		2.75	5.0E-70	BE166034.1	EST_HUMAN	MR3-HT0487-150200-115-a06 HT0487 Homo sapiens cDNA
6656	19417	32431	1.03	4.0E-70	T06037.1	EST_HUMAN	EST03928 Fetal brain, Stragene (cat#936206) Homo sapiens cDNA clone HFBDN25
6996	19813	32653	1.78	4.0E-70	AW793226.1	EST_HUMAN	CM4-UM0003-010300-105-g08 UM0003 Homo sapiens cDNA
6996	19813	32654	1.78	4.0E-70	AW793226.1	EST_HUMAN	CM4-UM0003-010300-105-g08 UM0003 Homo sapiens cDNA
1584	14330	27016	1.23	3.0E-70	BE071796.1	EST_HUMAN	RC0-BT0522-071299-011-a12 BT0522 Homo sapiens cDNA
1584	14330	27017	1.23	3.0E-70	BE071796.1	EST_HUMAN	RC0-BT0522-071299-011-a12 BT0522 Homo sapiens cDNA
5532	18330	31234	0.65	3.0E-70	11430988	NT	Homo sapiens plakophilin 4 (PKP4), mRNA
5532	18330	31235	0.65	3.0E-70	11430988	NT	Homo sapiens plakophilin 4 (PKP4), mRNA
5955	18642	31581	1.6	3.0E-70	AB31975.1	EST_HUMAN	wh90403.x1 NCI CGAP CLL1 Homo sapiens cDNA clone IMAGE:2388005 3'
6280	19053	32031	1.65	3.0E-70	BF685233.1	EST_HUMAN	602141561F1 NIH_MGC_46 Homo sapiens cDNA clone IMAGE:4302806 5'
6280	19053	32032	1.65	3.0E-70	BF685233.1	EST_HUMAN	602141561F1 NIH_MGC_46 Homo sapiens cDNA clone IMAGE:4302806 5'
10008	22656	35669	0.98	3.0E-70	BE502973.1	EST_HUMAN	h281h02.x1 NCI CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3214419 3'
37	12865	25484	1.2	2.0E-70	AF012872.1	NT	Homo sapiens phosphatidylinositol 4-kinase 230 (p14K230), mRNA, complete cds
673	13449	26089	14.09	2.0E-70	N42161.1	EST_HUMAN	yy07a10.r1 Soares melanocyte 2NbhM Homo sapiens cDNA clone IMAGE:270522 5' similar to SW:D3HL_RAT P29266 3-HYDROXYISOBUTYRATE DEHYDROGENASE PRECURSOR ;
673	13449	26090	14.09	2.0E-70	N42161.1	EST_HUMAN	yy07a10.r1 Soares melanocyte 2NbhM Homo sapiens cDNA clone IMAGE:270522 5' similar to SW:D3HL_RAT P29266 3-HYDROXYISOBUTYRATE DEHYDROGENASE PRECURSOR ;
689	13464	26113	1.7	2.0E-70	A1246899.1	EST_HUMAN	qx51h01.x1 NCI CGAP_Pan1 Homo sapiens cDNA clone IMAGE:2004913 3'
1000	13760	26421	1.56	2.0E-70	8923669	NT	Homo sapiens hypothetical protein FLJ20758 (FLJ20758), mRNA
1161	13915	26578	3.05	2.0E-70	7661983	NT	Homo sapiens KIAA0193 gene product (KIAA0193), mRNA
1161	13915	26579	3.05	2.0E-70	7661983	NT	Homo sapiens KIAA0193 gene product (KIAA0193), mRNA
1736	14478	27177	1.66	2.0E-70	AL163202.2	NT	Homo sapiens chromosome 21 segment HS21C002
2318	15043		5.32	2.0E-70	AA054010.1	EST_HUMAN	z48g04.r1 Soares retina N2b4HR Homo sapiens cDNA clone IMAGE:380214 5' similar to SW:GAG_HTL1A
3615	16368	29011	0.78	2.0E-70	H37988.1	EST_HUMAN	P03345 GAG POLYPROTEIN ;
4027	16772	29404	5.06	2.0E-70	M69181.1	NT	yp8b04.r1 Soares fetal liver spleen INFLS Homo sapiens cDNA clone IMAGE:191599 5'
5428	18227	30939	8.7	2.0E-70	X72662.1	NT	Human nonmuscle myosin heavy chain-B (MYH10), mRNA, partial cds
5428	18227	30940	8.7	2.0E-70	X72662.1	NT	H. sapiens gene for schwannomin (CS9)
6111	18898	31857	1.27	2.0E-70	AF310105.1	NT	H. sapiens gene for schwannomin (CS9)
6538	19303	32307	1.75	2.0E-70	D12623.1	NT	Homo sapiens NALP1 mRNA, complete cds
6569	19333	32342	12.14	2.0E-70	AF123074.1	NT	Human mRNA for NF1 protein isoform (neurofibromin isoform), complete cds
6569	19333	32343	12.14	2.0E-70	AF123074.1	NT	Homo sapiens cytoplasmic dynein intermediate chain 1 mRNA, complete cds
6569	19333	32343	12.14	2.0E-70	AF123074.1	NT	Homo sapiens cytoplasmic dynein intermediate chain 1 mRNA, complete cds

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Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
6897	17973	30530	1.68	2.0E-70	11422642	NT	Homo sapiens sialyltransferase 6 (N-acetylglucosaminide alpha 2,3-sialyltransferase) (SIA1T6), mRNA
7303	19886	33062	0.76	2.0E-70	AF288207.1	NT	Homo sapiens cysteinyl-tRNA synthetase mRNA, complete cds, alternatively spliced
7819	20514	33639	8.02	2.0E-70	M21741.1	NT	Human guanine nucleotide-binding protein alpha-subunit gene (G-s-alpha), exons 4 and 5
8121	20815	33951	0.5	2.0E-70	11423599	NT	Homo sapiens amylo-1,6-glucosidase, 4-alpha-glucanotransferase (glycogen debranching enzyme, glycogen storage disease type III) (AGL), mRNA
8558	21250		0.8	2.0E-70	H47859.1	EST_HUMAN	yp78g02.r1 Soares fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:183682 5'
8967	21756	34918	0.95	2.0E-70	11526355	NT	Homo sapiens dynactin p62 subunit (LOC51164), mRNA
10038	22886	35904	1.46	2.0E-70	AF123303.1	NT	Homo sapiens calcium-binding transporter mRNA, partial cds
10500	23146	36373	0.47	2.0E-70	AB033042.1	NT	Homo sapiens mRNA for KIAA1216 protein, partial cds
11005	23677	36833	3.75	2.0E-70	8923420	NT	Homo sapiens hypothetical protein FLJ20450 (FLJ20450), mRNA
11005	23677	36834	3.75	2.0E-70	8923420	NT	Homo sapiens hypothetical protein FLJ20450 (FLJ20450), mRNA
11639	24236	37559	7.32	2.0E-70	4503520	NT	Homo sapiens eukaryotic translation initiation factor 3, subunit 6 (48kD) (EIF3S6) mRNA
12353	24757	31058	3.06	2.0E-70	11430460	NT	Homo sapiens low density lipoprotein-related protein 2 (LRP2), mRNA
12553	24757	31059	3.06	2.0E-70	11430460	NT	Homo sapiens low density lipoprotein-related protein 2 (LRP2), mRNA
3388	16147		2.63	1.0E-70	4507476	NT	Homo sapiens transglutaminase 3 (E polypeptide, protein-glutamine-gamma-glutamyltransferase) (TGM3) mRNA
9180	21850		0.69	1.0E-70	W85795.1	EST_HUMAN	zh55g05.r1 Soares fetal liver spleen 1NFLS S1 Homo sapiens cDNA clone IMAGE:416024 5'
9888	22949		0.65	1.0E-70	AA442292.1	EST_HUMAN	zv54c03.r1 Soares testis_NHT Homo sapiens cDNA clone IMAGE:757444 5'
10852	23532	36777	7.13	1.0E-70	AV738538.1	EST_HUMAN	AV738538 CB Homo sapiens cDNA clone CBLGB10 5'
5854	18641	31579	7.05	9.0E-71	AI143870.1	EST_HUMAN	qs04f01.x1 Soares testis_NHT Homo sapiens cDNA clone IMAGE:1738009 3' similar to TR:O14045
5854	18641	31580	7.05	9.0E-71	AI143870.1	EST_HUMAN	qs04f01.x1 Soares testis_NHT Homo sapiens cDNA clone IMAGE:1738009 3' similar to TR:O14045
6632	19668	32714	2.23	9.0E-71	AI654903.1	EST_HUMAN	O14045 PHOSPHOTRANSFERASE, ;
11508	19668	32714	4.79	9.0E-71	AI654903.1	EST_HUMAN	wb52c05.x1 NCI CGAP_G06 Homo sapiens cDNA clone IMAGE:2309288 3' similar to TR:P97213 P97213
8968	21658		5.03	8.0E-71	AA171451.1	EST_HUMAN	CDU2, CDU1, TCDD, TCDB, TCDE, TCDA, TCDC, CDD1, CDD2, CDD3, AND CDD4 GENES. ;
7275	19959	33036	8.9	7.0E-71	AA442230.1	EST_HUMAN	wb52c05.x1 NCI CGAP_G06 Homo sapiens cDNA clone IMAGE:2309288 3' similar to TR:P97213 P97213
8578	21270	34408	1.02	7.0E-71	AA705457.1	EST_HUMAN	CDU2, CDU1, TCDD, TCDB, TCDE, TCDA, TCDC, CDD1, CDD2, CDD3, AND CDD4 GENES. ;
11302	23961	37262	2.07	7.0E-71	AL163210.2	NT	zb21d11.r1 Stragene neuroepithelium (#837231) Homo sapiens cDNA clone IMAGE:610101 5' similar to TR:G1143061 G1143061 STRAIN XA34 POL ;
2207	14935	27673	5.87	5.0E-71	AF065322.1	NT	TR:G1143061 G1143061 STRAIN XA34 POL ;
							z60h06.r1 Soares testis_NHT Homo sapiens cDNA clone IMAGE:758075 5'
							z61a06.s1 Soares fetal liver spleen 1NFLS S1 Homo sapiens cDNA clone IMAGE:462226 3'
							Homo sapiens chromosome 21 segment HS21C010
							Homo sapiens SP100-HMG nuclear autoantigen (SP100) mRNA, complete cds

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
4101	18844	29472	1.36	5.0E-71	AW819405.1	EST_HUMAN	QV4-ST0234-181199-037-f05 ST0234 Homo sapiens cDNA
5790	18581	31508	2.23	5.0E-71	4502740	NT	Homo sapiens cyclin-dependent kinase 6 (CDK6) mRNA
6564	19329	32336	1.42	5.0E-71	11641408	NT	Homo sapiens keratin, hair, acidic, 7 (KRT1A7), mRNA
6821	19482	32504	1.43	5.0E-71	7682209	NT	Homo sapiens KIAA0623 gene product (KIAA0623), mRNA
6878	17954	30550	0.62	5.0E-71	AB033106.1	NT	Homo sapiens mRNA for KIAA1280 protein, partial cds
6878	17954	30551	0.62	5.0E-71	AB033106.1	NT	Homo sapiens mRNA for KIAA1280 protein, partial cds
7046	19737	32798	0.76	5.0E-71	11431590	NT	Homo sapiens protein kinase C, beta 1 (PRKCB1), mRNA
7410	20087	33171	1.47	5.0E-71	M38106.1	NT	Human neurofibromatosis protein type 1 mRNA, 3' end of cds
7607	20273	33381	0.75	5.0E-71	11528445	NT	Homo sapiens MAGUK protein p55T; Protein Associated with Lins 2 (LOC51678), mRNA
7634	20299	33408	22.56	5.0E-71	AF072810.1	NT	Homo sapiens transcription factor WSTF mRNA, complete cds
8421	21114	34251	0.61	5.0E-71	5453777	NT	Homo sapiens nuclear factor related to kappa B binding protein (NFKKB) mRNA
8421	21114	34252	0.61	5.0E-71	5453777	NT	Homo sapiens nuclear factor related to kappa B binding protein (NFKKB) mRNA
9811	22462		2.67	5.0E-71	X13467.1	NT	Human PreA4 gene for Alzheimer's disease A4 amyloid protein precursor (exon 2)
10530	23227	36461	1.45	5.0E-71	5729900	NT	Homo sapiens IGF-II mRNA-binding protein 3 (KOC1), mRNA
10901	23581	36831	2.93	5.0E-71	11436514	NT	Homo sapiens pro-platelet basic protein (includes platelet basic protein, beta-thromboglobulin, connective tissue-activating peptide III, neutrophil-activating peptide-2) (PPBP), mRNA
11147	23814	37097	2.57	5.0E-71	11438069	NT	Homo sapiens similar to hypothetical protein FLJ20163 (H. sapiens) (LOC833325), mRNA
340	13141	25778	102.7	4.0E-71	AF157628.1	NT	Equus caballus glyceraldehyde-3-phosphate dehydrogenase mRNA, partial cds
340	13141	25779	102.7	4.0E-71	AF157628.1	NT	Equus caballus glyceraldehyde-3-phosphate dehydrogenase mRNA, partial cds
2899	15656	28299	1.97	4.0E-71	4505880	NT	Homo sapiens plasminogen (PLG) mRNA
4394	17131	29762	3.37	4.0E-71	AF056322.1	NT	Homo sapiens SP100-HMG nuclear autoantigen (SP100) mRNA, complete cds
4926	17654	30266	5.57	4.0E-71	7657602	NT	Homo sapiens putative heme-binding protein (SOUL), mRNA
5089	17788	30404	1.1	4.0E-71	7019352	NT	Homo sapiens cofactor required for Sp1 transcriptional activation, subunit 3 (130kD) (CRSP3), mRNA
7933	20628		1.41	3.0E-71	AU135734.1	EST_HUMAN	AU135734 PLACE1 Homo sapiens cDNA clone PLACE1002775 5'
10591	23285	36523	3.38	3.0E-71	AA557883.1	EST_HUMAN	n45h10.s1 NCL CGAP_P4 Homo sapiens cDNA clone IMAGE:1043683 similar to contains PTR5.13 PTR5 repetitive element ;
1208	13959	28626	2.02	2.0E-71	AL163206.2	NT	Homo sapiens chromosome 21 segment HS21C006
5237	18043	30672	8.24	2.0E-71	D87462.1	NT	Human mRNA for KIAA0272 gene, partial cds
5237	18043	30673	8.24	2.0E-71	D87462.1	NT	Human mRNA for KIAA0272 gene, partial cds
6871	17948	30543	0.55	2.0E-71	AL042439.1	EST_HUMAN	DKFZp434D1721_r1_434 (synonym: hies3) Homo sapiens cDNA clone DKFZp434D1721 5'
8903	21694	34735	0.64	2.0E-71	BF195585.1	EST_HUMAN	7n85c11.x1 NCL CGAP_Ov18 Homo sapiens cDNA clone IMAGE:3571221 3' similar to TR:Q92165 Q92165 PUTATIVE FOUR REPEAT ION CHANNEL ;

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
10485	23131	36357	3.88	2.0E-71	AF095703.1	NT	Homo sapiens short chain L-3-hydroxyacyl-CoA dehydrogenase precursor (HADHSC) gene, nuclear gene encoding mitochondrial protein, complete cds
10485	23131	36358	3.88	2.0E-71	AF095703.1	NT	Homo sapiens short chain L-3-hydroxyacyl-CoA dehydrogenase precursor (HADHSC) gene, nuclear gene encoding mitochondrial protein, complete cds
10593	23287	36524	3.21	2.0E-71	BE018477.1	EST_HUMAN	bb81a06.y1 NIH_MGC_10 Homo sapiens cDNA clone IMAGE:3048754 5' similar to SW:R23B_HUMAN P54727 UV EXCISION REPAIR PROTEIN RAD23 HOMOLOG B ;
11552	24151	37463	1.36	2.0E-71	BF149173.1	EST_HUMAN	Tnu022 Human Epidermal Keratinocyte Subtraction Library- Upregulated Transcripts Homo sapiens cDNA similar to gi 6598881
11552	24151	37464	1.36	2.0E-71	BF149173.1	EST_HUMAN	Tnu022 Human Epidermal Keratinocyte Subtraction Library- Upregulated Transcripts Homo sapiens cDNA similar to gi 6598881
11576	24175	37490	2.35	2.0E-71	R55628.1	EST_HUMAN	Y77C11.1 Scores breast 2NbhBst Homo sapiens cDNA clone IMAGE:154772 5'
12038	24561		8.43	2.0E-71	T95489.1	EST_HUMAN	ye43e09.1 Scores fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:120520 5'
623	13402	26037	1.83	1.0E-71	AI077927.1	EST_HUMAN	oY15e03.s1 Scores senescent_fibroblasts_NbHSF Homo sapiens cDNA clone IMAGE:1665916 3' similar to contains LOR1.b2 LOR1 repetitive element ;
920	13687	26351	2.37	1.0E-71	7706281	NT	Homo sapiens neuronal cell death-related protein (LOC51616), mRNA
1078	13638	26494	6.15	1.0E-71	AF205890.1	NT	Homo sapiens disabled-2 gene, exons 2 through 15 and complete cds
1317	14066	26740	11.71	1.0E-71	AF012872.1	NT	Homo sapiens phosphatidylinositol 4-kinase 230 (p4K230) mRNA, complete cds
2074	14808	27536	1.39	1.0E-71	AB017007.1	NT	Homo sapiens PMS2L16 mRNA, partial cds
2074	14806	27537	1.38	1.0E-71	AB017007.1	NT	Homo sapiens PMS2L16 mRNA, partial cds
2698	15407	28142	3.91	1.0E-71	7657153	NT	Homo sapiens haldy/enhancer-of-split related with YRPW motif-like (HEYL), mRNA
3493	16249	28603	2.93	1.0E-71	AF118665.1	NT	Homo sapiens inorganic pyrophosphatase mRNA, complete cds
3583	16338	28982	5.88	1.0E-71	AF246219.1	NT	Homo sapiens SNARE protein kinase SNAK mRNA, complete cds
3583	16338	28983	5.88	1.0E-71	AF246219.1	NT	Homo sapiens SNARE protein kinase SNAK mRNA, complete cds
3639	16392	29031	0.98	1.0E-71	BE122650.1	EST_HUMAN	02_15 Human Epidermal Keratinocyte Subtraction Library- Upregulated Transcripts Homo sapiens cDNA clone 02_15 5' similar to Homo sapiens chromosome 19
3639	16392	29032	0.98	1.0E-71	BE122650.1	EST_HUMAN	02_15 Human Epidermal Keratinocyte Subtraction Library- Upregulated Transcripts Homo sapiens cDNA clone 02_15 5' similar to Homo sapiens chromosome 19
3724	16477	29114	2	1.0E-71	AF218904.1	NT	Homo sapiens attractin precursor (ATRIN) gene, exon 19
4437	17173	29601	1.92	1.0E-71	D28476.1	NT	Human mRNA for KIAA00045 gene, complete cds
4552	17287	29616	0.98	1.0E-71	H23176.1	EST_HUMAN	ym55h10.1 Scores infant brain 1N1B Homo sapiens cDNA clone IMAGE:52528 5'
6643	19405	32420	1.07	1.0E-71	11426182	NT	Homo sapiens GCN5 (general control of amino-acid synthesis, yeast, homolog)-like 2 (GCN5L2), mRNA
5986	19679	32726	1.39	1.0E-71	AB011131.1	NT	Homo sapiens mRNA for KIAA0556 protein, partial cds
7211	19896	32871	13.35	1.0E-71	U80753.1	NT	Homo sapiens CAGL79 mRNA, partial cds

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
8046	20740	33872	0.69	1.0E-71	AF105267.1	NT	Homo sapiens glypican-6 (GPC6) mRNA, complete cds
8069	20763	33891	2.26	1.0E-71	11425430	NT	Homo sapiens myomesin (M-protein) 2 (165kD) (MYOM2), mRNA
8345	21038	34174	4.09	1.0E-71	8922811	NT	Homo sapiens hypothetical protein FLJ10998 (FLJ10998), mRNA
8345	21038	34175	4.09	1.0E-71	8922811	NT	Homo sapiens hypothetical protein FLJ10998 (FLJ10998), mRNA
9128	21816	34982	0.78	1.0E-71	S72393.1	NT	GSNK2A1=casein kinase II (CKII) subunit alpha [human, Genomic, 18882 nt]
9908	22557	35752	7.89	1.0E-71	AY007643.1	NT	Homo sapiens cytochrome c oxidase subunit VII-related protein gene, complete cds
9988	22616		2.05	1.0E-71	AV761217.1	EST_HUMAN	AV761217 MDS Homo sapiens cDNA clone MDSEIA03 5'
10438	23082	36309	1.45	1.0E-71	11433142	NT	Homo sapiens activated leucocyte cell adhesion molecule (ALCAM), mRNA
10694	23375		2.58	1.0E-71	AV761217.1	EST_HUMAN	AV761217 MDS Homo sapiens cDNA clone MDSEIA03 5'
10796	23479	36720	2.19	1.0E-71	11418903	NT	Homo sapiens coagulation factor XIII, A1 polypeptide (F13A1), mRNA
11093	23763	37037	1.73	1.0E-71	11417191	NT	Homo sapiens leucyl/cystinyl aminopeptidase (LNPEP), mRNA
11093	23763	37038	1.73	1.0E-71	11417191	NT	Homo sapiens leucyl/cystinyl aminopeptidase (LNPEP), mRNA
12401	24788		4.96	1.0E-71	AB011398.1	NT	Homo sapiens gene for AF-6, complete cds
398	13183	25830	1.72	9.0E-72	AB57635.1	EST_HUMAN	wk96g03.x1 NCL CGAP Lu19 Homo sapiens cDNA clone IMAGE:2423188 3' similar to TR:O86705 O86705 HYPOTHETICAL 38.6 KD PROTEIN, contains Alu repetitive element;
398	13183	25831	1.72	9.0E-72	AB57635.1	EST_HUMAN	wk96g03.x1 NCL CGAP Lu19 Homo sapiens cDNA clone IMAGE:2423188 3' similar to TR:O86705 O86705 HYPOTHETICAL 38.6 KD PROTEIN, contains Alu repetitive element;
6020	18801	31762	0.97	8.0E-72	BF035752.1	EST_HUMAN	601458747F1 NIH_MGC_66 Homo sapiens cDNA clone IMAGE:3862451 5'
4092	16834	29458	2.63	7.0E-72	4501866	NT	Homo sapiens aconitase 2, mitochondrial (ACO2), nuclear gene encoding mitochondrial protein, mRNA
4092	16834	29459	2.63	7.0E-72	4501866	NT	Homo sapiens aconitase 2, mitochondrial (ACO2), nuclear gene encoding mitochondrial protein, mRNA
4092	16834	29460	2.63	7.0E-72	4501866	NT	Homo sapiens aconitase 2, mitochondrial (ACO2), nuclear gene encoding mitochondrial protein, mRNA
7024	19716	32773	2.99	7.0E-72	S41694.1	NT	(pseudogene) PTMAP2=prothymosin alpha [human, Genomic, 1192 nt, segment 2 of 3]
12520	24868		1.9	7.0E-72	F28259.1	EST_HUMAN	HSPD13670 HM3 Homo sapiens cDNA clone s4000051G02
8283	20977		4.14	6.0E-72	AL163246.2	NT	Homo sapiens chromosome 21 segment HS21C046
60	12889	25521	1.06	6.0E-72	BF333707.1	EST_HUMAN	QV0-CS0010-150900-398-e11 CS0010 Homo sapiens cDNA
60	12889	25522	1.06	6.0E-72	BF333707.1	EST_HUMAN	QV0-CS0010-150900-398-e11 CS0010 Homo sapiens cDNA
61	12889	25521	3.47	6.0E-72	BF333707.1	EST_HUMAN	QV0-CS0010-150900-398-e11 CS0010 Homo sapiens cDNA
61	12889	25522	3.47	6.0E-72	BF333707.1	EST_HUMAN	QV0-CS0010-150900-398-e11 CS0010 Homo sapiens cDNA
1117	13874		3.62	6.0E-72	L11845.1	NT	Homo sapiens alpha-tubulin mRNA, complete cds
9851	19551	32581	1.59	6.0E-72	AU128584.1	EST_HUMAN	AU128584 NT2RP2 Homo sapiens cDNA clone NT2RP2003751 5'

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Table 4
Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Database Source	Top Hit Descriptor
7731	20394	33509	0.73	5.0E-72	AA316632.1	EST188312 HCC cell line (metastasis to liver in mouse) Homo sapiens cDNA 5' end similar to similar to FAC1
8675	21367	34514	3.71	5.0E-72	AW161274.1	au80c03.y1 Schneider fetal brain 00004 Homo sapiens cDNA clone IMAGE:2782564 5' similar to TR:Q99785 Q99785 HYPOTHETICAL 32.4 KD PROTEIN ; contains element MSR1 repetitive element ;
9861	22511	35708	0.99	5.0E-72	AV724632.1	AV724632 HTB Homo sapiens cDNA clone HTBAKB01 5'
11208	23871	37157	3.45	5.0E-72	BF331571.1	MR4-BT0598-010600-005-d05 BT0598 Homo sapiens cDNA
11208	23871	37158	3.45	5.0E-72	BF331571.1	MR4-BT0598-010600-005-d05 BT0598 Homo sapiens cDNA
11643	24240	37563	1.81	5.0E-72	BE208545.1	ba09g08.y1 NIH_MGC 7 Homo sapiens cDNA clone IMAGE:2823806 5'
11643	24240	37564	1.81	5.0E-72	BE208545.1	ba09g08.y1 NIH_MGC 7 Homo sapiens cDNA clone IMAGE:2823806 5'
12107	25358		2.82	5.0E-72	BE926645.1	QV1-BT0632-260800-342-a10 BT0632 Homo sapiens cDNA
5378	18178	30868	0.62	4.0E-72	AF170025.1	Homo sapiens zinc finger protein ZFP_95 (ZFP95) mRNA, alternatively spliced, complete cds
6462	19229	32230	0.98	4.0E-72	T87947.1	yd93a01.r1 Soares fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:115752 5' similar to SP:A44282 A44282 RETROVIRUS-RELATED POLYPROTEIN - HUMAN ;
7309	19992	33069	2.03	4.0E-72	5729867	Homo sapiens hec domain and RLD 2 (HERC2), mRNA
9684	22336	35531	1.3	4.0E-72	8923669	Homo sapiens hypothetical protein FLJ20758 (FLJ20758), mRNA
10292	22839	36152	0.48	4.0E-72	AW838230.1	RC3-LT0023-200100-012-r11 LT0023 Homo sapiens cDNA
10292	22839	36153	0.48	4.0E-72	AW838230.1	RC3-LT0023-200100-012-r11 LT0023 Homo sapiens cDNA
10320	22967	36186	0.92	4.0E-72	A1248796.1	qh67c02.x1 Soares fetal liver spleen 1NFLS_S1 Homo sapiens cDNA clone IMAGE:1849730 3' similar to TR:Q14498 Q14498 SPLICING FACTOR, [1]; contains Alu repetitive element; contains element L1 repetitive element ;
11255	23917	37210	1.57	4.0E-72	AA465388.1	aa23f09.s1 NCI_CGAP_GCB1 Homo sapiens cDNA clone IMAGE:814121 3' similar to SW:CPTR_FLAPR P49131 CHLOROPLAST TRIOSE PHOSPHATE TRANSLOCATOR PRECURSOR. ;
11255	23917	37211	1.57	4.0E-72	AA465388.1	aa23f09.s1 NCI_CGAP_GCB1 Homo sapiens cDNA clone IMAGE:814121 3' similar to SW:CPTR_FLAPR P49131 CHLOROPLAST TRIOSE PHOSPHATE TRANSLOCATOR PRECURSOR. ;
11514	24114	37424	7.78	4.0E-72	H79421.1	yl28a03.r1 Soares fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:235084 5'
11637	24234	37555	1.75	4.0E-72	7657057	Homo sapiens eukaryotic translation initiation factor 2B, subunit 2 (beta, 39kD) (EIF2B2), mRNA
11637	24234	37556	1.75	4.0E-72	7657057	Homo sapiens eukaryotic translation initiation factor 2B, subunit 2 (beta, 39kD) (EIF2B2), mRNA
11680	24275	37597	2.16	4.0E-72	T81910.1	yd28d09.s1 Soares fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:109649 3'
12453	24822	31025	8.92	4.0E-72	AJ277546.2	Homo sapiens WEE1 gene for protein kinase and partial ZNF143 gene for zinc finger transcription factor
18	12846	25459	0.69	3.0E-72	5031976	Homo sapiens pre-B-cell colony-enhancing factor (PBEF) mRNA
883	13652		1.52	3.0E-72	AA723823.1	ah53a06.s1 Soares testis_NHT Homo sapiens cDNA clone 1310290 3'

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
1132	13888	26546	6.64	3.0E-72	U16306.1	NT	Human chondroitin sulfate proteoglycan versican V0 splice-variant precursor peptide mRNA, complete cds
1132	13888	26547	6.64	3.0E-72	U16306.1	NT	Human chondroitin sulfate proteoglycan versican V0 splice-variant precursor peptide mRNA, complete cds
1171	13925	26587	0.72	3.0E-72	U80226.1	NT	Human gamma-aminobutyric acid transaminase mRNA, partial cds
1171	13925	26588	0.72	3.0E-72	U80226.1	NT	Human gamma-aminobutyric acid transaminase mRNA, partial cds
1510	14256	26942	1.24	3.0E-72	BE242161.1	EST_HUMAN	TCAAP1E1252 Pediatric acute myelogenous leukemia cell (FAB M1) Bayler-HGSC project=TCAA Homo sapiens cDNA clone TCAAP1252
3072	15838	28481	11.45	3.0E-72	AJ228043.1	NT	Homo sapiens 959 kb contig between AML1 and CBR1 on chromosome 21q22, segment 3/3
3273	16034	28684	2.17	3.0E-72	8923548	NT	Homo sapiens hypothetical protein FLJ20585 (FLJ20585), mRNA
3803	16555	29186	2.69	3.0E-72	S77589.1	NT	TCR V delta 2-C alpha =T-cell receptor delta and C alpha fusion gene (alternatively spliced, splice junction) [human, precursor B-cell line REH, mRNA Partial, 211 nt]
4508	17243	29676	3.12	3.0E-72	11416196	NT	Homo sapiens hypothetical protein (FLJ11127), mRNA
4715	17447	30079	1.07	3.0E-72	AF167572.1	NT	Homo sapiens protein methyltransferase (JBP1) mRNA, complete cds
4715	17447	30080	1.07	3.0E-72	AF167572.1	NT	Homo sapiens protein methyltransferase (JBP1) mRNA, complete cds
4862	17591	30215	0.95	3.0E-72	A1654337.1	EST_HUMAN	wb31a08.x1 NCI_CGAP_G06 Homo sapiens cDNA clone IMAGE:2307254 3'
5433	18232	30215	1.27	3.0E-72	4759093	NT	Homo sapiens semaphorin W (SEMAW) mRNA
5891	18676	31621	2.1	3.0E-72	AF073367.1	NT	Homo sapiens growth factor receptor-bound protein 10 (GRB10) gene, exon 5
5891	18676	31622	2.1	3.0E-72	AF073367.1	NT	Homo sapiens growth factor receptor-bound protein 10 (GRB10) gene, exon 5
6074	18853	31819	4.82	3.0E-72	AB029004.1	NT	Homo sapiens mRNA for KIAA1081 protein, partial cds
6074	18853	31820	4.82	3.0E-72	AB029004.1	NT	Homo sapiens mRNA for KIAA1081 protein, partial cds
6516	19281	32284	3.63	3.0E-72	4826987	NT	Homo sapiens ribosomal protein L3-like (RPL3L) mRNA
7485	20157	33249	2.15	3.0E-72	U80017.1	NT	Homo sapiens basic transcription factor 2 p44 (btf2p44) gene, partial cds, neuronal apoptosis inhibitory protein (nail) and survival motor neuron protein (smn) genes, complete cds
8075	20769	33898	0.96	3.0E-72	5031892	NT	Homo sapiens nuclear receptor subfamily 1, group H, member 3 (NR1H3), mRNA
10331	22978	36198	1.2	3.0E-72	X98289.1	NT	Homo sapiens S100A12 gene for Calgranulin C, exon 2 and joined cds
5869	18656	31597	1.91	2.0E-72	11426671	NT	Homo sapiens solute carrier family 13 (sodium-dependent dicarboxylate transporter), member 2 (SLC13A2), mRNA
8993	21683	34832	0.71	2.0E-72	BF308560.1	EST_HUMAN	601890419F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:4131461 5'
8993	21683	34833	0.71	2.0E-72	BF308560.1	EST_HUMAN	601890419F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:4131461 5'
10640	23331	36569	2.47	2.0E-72	AA789277.1	EST_HUMAN	mRNA for 7SL RNA pseudogene (HUMAN);
12449	24819	31022	5.75	2.0E-72	AF182714.1	NT	Rattus norvegicus putative phosphate/phosphoenolpyruvate translocator mRNA, complete cds
2088	14800	27527	1.19	1.0E-72	AA846225.1	EST_HUMAN	ab3402.s1 Soares_parathyroid_tumor_NbHPA Homo sapiens cDNA clone IMAGE:1387395 3'

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Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
5680	18473	31390	3.63	1.0E-72	7657676	NT	Homo sapiens vacuolar protein sorting 41 (yeast homolog) (VPS41), mRNA
6464	19231	32231	1.31	1.0E-72	11321678	NT	Homo sapiens myosin, heavy polypeptide 13, skeletal muscle (MYH13), mRNA
6464	19231	32232	1.31	1.0E-72	11321678	NT	Homo sapiens myosin, heavy polypeptide 13, skeletal muscle (MYH13), mRNA
6536	25093	32305	1.2	1.0E-72	AV751818.1	EST_HUMAN	AV751818 NPD Homo sapiens cDNA clone NPDAIE11 5'
7537	20207	33304	3.7	1.0E-72	BE175434.1	EST_HUMAN	RC4-HT0578-170300-012-g02 HT0578 Homo sapiens cDNA
7537	20207	33305	3.7	1.0E-72	BE175434.1	EST_HUMAN	RC4-HT0578-170300-012-g02 HT0578 Homo sapiens cDNA
9491	22144	35324	10.25	1.0E-72	AF222742.1	NT	Homo sapiens synaptic glycoprotein SC2 (SC2) mRNA, complete cds
9491	22144	35325	10.25	1.0E-72	AF222742.1	NT	Homo sapiens synaptic glycoprotein SC2 (SC2) mRNA, complete cds
1444	14191	26875	1.35	9.0E-73	AW374968.1	EST_HUMAN	MRO-CT0063-071099-002-h11 CT0063 Homo sapiens cDNA
10871	23551		15.11	9.0E-73	11424099	NT	Homo sapiens ribosomal protein L13a (RPL13A), mRNA
1015	13774	26434	2.29	8.0E-73	AW071755.1	EST_HUMAN	ws55c06.x1 NCI_CGAP_Bm25 Homo sapiens cDNA clone IMAGE:2501098 3' similar to TR:Q59050
5493	18292	31190	1	8.0E-73	4506798	NT	Q59050 HYPOTHETICAL PROTEIN MJ1686 ;
6478	19245	32245	5.16	8.0E-73	11426469	NT	Homo sapiens phosphatidylinositol 3-kinase, class 2, alpha polypeptide (PIK3C2A) mRNA
7994	20689	33817	2.87	8.0E-73	AF113129.1	NT	Homo sapiens lysosomal ATPase isoform VA68 mRNA, complete cds
9253	21932	35105	6.25	8.0E-73	BE019900.1	EST_HUMAN	bb62a06.y1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3030034 5' similar to gb:X04098_cds1 ACTIN, CYTOPLASMIC 2 (HUMAN); gb:M21495 Mouse cytoskeletal gamma-actin mRNA, complete cds (MOUSE);
9640	22282	35484	1.92	8.0E-73	11526037	NT	Homo sapiens interleukin 12 receptor, beta 1 (IL12RB1), mRNA
9640	22292	35485	1.92	8.0E-73	11526037	NT	Homo sapiens interleukin 12 receptor, beta 1 (IL12RB1), mRNA
10507	23153	36378	0.45	8.0E-73	4507628	NT	Homo sapiens transition protein 1 (during histone to protamine replacement) (TNPT1) mRNA
11573	24172	37488	1.28	8.0E-73	11418786	NT	Homo sapiens DEAD-box protein (HAGE), mRNA
12506	24859	31012	3.31	8.0E-73	11418189	NT	Homo sapiens thyroid autoantigen 70kD (Ku antigen) (G22P1), mRNA
1112	13869	26528	0.89	7.0E-73	8923290	NT	Homo sapiens hypothetical protein FLJ20309 (FLJ20309), mRNA
3295	16056	28705	1.18	7.0E-73	AL163206.2	NT	Homo sapiens chromosome 21 segment HS21C006
4891	17618		1.35	7.0E-73	AL163282.2	NT	Homo sapiens chromosome 21 segment HS21C082
154	12969		3.07	6.0E-73	AL163218.2	NT	Homo sapiens chromosome 21 segment HS21C018
7072	19763	32827	3.48	6.0E-73	BE166574.1	EST_HUMAN	QV0-HT0494-020300-137-d03 HT0494 Homo sapiens cDNA
5173	17982	30497	2.2	4.0E-73	11422159	NT	Homo sapiens HELG protein (FAM441), mRNA
1318	14067	26741	2.77	3.0E-73	AW843789.1	EST_HUMAN	CNM0-CN0044-280100-164-f08 CN0044 Homo sapiens cDNA
6598	19361	32374	0.71	3.0E-73	AA136403.1	EST_HUMAN	zn95e04.s1 Stratagene fetal retina 997202 Homo sapiens cDNA clone IMAGE:565950 3' similar to gb:Z23064_cds1 HETEROGENEOUS NUCLEAR RIBONUCLEOPROTEIN G (HUMAN);
8656	21348	34492	0.65	3.0E-73	AV729428.1	EST_HUMAN	AV729428 HTC Homo sapiens cDNA clone HTCAAF071 5'
8656	21348	34493	0.65	3.0E-73	AV729428.1	EST_HUMAN	AV729428 HTC Homo sapiens cDNA clone HTCAAF071 5'

Table 4
Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
11611	24209		1.51	3.0E-73	AI004040.1	EST_HUMAN	ou11402.x1 Scores_NFL_T_OBC_ST Homo sapiens cDNA clone IMAGE:1625955 3'
12734	25003		1.5	3.0E-73	AL163246.2	NT	Homo sapiens chromosome 21 segment HS21C048
12738	25005		1.54	3.0E-73	AW898081.1	EST_HUMAN	RC3-NN0066-270400-011-c04 NN0066 Homo sapiens cDNA
831	13601	26271	1.43	2.0E-73	AF139897.1	NT	Homo sapiens BASS1 (BASS1) mRNA, partial cds
1839	14674		1.78	2.0E-73	AW898081.1	EST_HUMAN	RC3-NN0066-270400-011-c04 NN0066 Homo sapiens cDNA
2268	15021		1.3	2.0E-73	U01317.1	NT	Human beta globin region on chromosome 11
3177	15940	28590	3.99	2.0E-73	4502582	NT	Homo sapiens caspase 8, apoptosis-related cysteine protease (CASP8) mRNA
3538	18284	28943	0.91	2.0E-73	7669539	NT	Homo sapiens Parkinson disease (autosomal recessive, juvenile) 2, parkin (PARK2), transcript variant 3, mRNA
3538	18284	28944	0.91	2.0E-73	7669539	NT	Homo sapiens Parkinson disease (autosomal recessive, juvenile) 2, parkin (PARK2), transcript variant 3, mRNA
4401	17138		1.03	2.0E-73	AL163283.2	NT	Homo sapiens chromosome 21 segment HS21C083
6344	19114	32102	0.89	2.0E-73	AF066824.1	NT	Mus musculus rho/rac-interacting citron kinase (Crik) mRNA, complete cds
6344	19114	32103	0.89	2.0E-73	AF066824.1	NT	Mus musculus rho/rac-interacting citron kinase (Crik) mRNA, complete cds
6389	19158	32159	6.27	2.0E-73	AB046811.1	NT	Homo sapiens mRNA for KIAA1591 protein, partial cds
6800	19363	32378	1.27	2.0E-73	11431471	NT	Homo sapiens interleukin 4 receptor (IL4R), mRNA
6800	19363	32377	1.27	2.0E-73	11431471	NT	Homo sapiens interleukin 4 receptor (IL4R), mRNA
7699	20362	33478	0.69	2.0E-73	M94048.1	NT	Human peripheral myelin protein 22 mRNA, complete cds
7701	20364	33478	0.73	2.0E-73	AB037750.1	NT	Homo sapiens mRNA for KIAA1329 protein, partial cds
9432	22110	35284	0.52	2.0E-73	AF198349.1	NT	Gallus gallus Dach2 protein (Dach2) mRNA, complete cds
9432	22110	35285	0.52	2.0E-73	AF198349.1	NT	Gallus gallus Dach2 protein (Dach2) mRNA, complete cds
10322	22969	36189	1.21	2.0E-73	4504168	NT	Homo sapiens glutathione synthetase (GSS) mRNA
10394	23040	36257	1.31	2.0E-73	11496980	NT	Homo sapiens supervillin (SVIL), transcript variant 1, mRNA
10394	23040	36258	1.31	2.0E-73	11496980	NT	Homo sapiens supervillin (SVIL), transcript variant 1, mRNA
10987	23662	36917	3.37	2.0E-73	4557612	NT	Homo sapiens galactosylceramidase (Krabbe disease) (GALC), mRNA
10987	23662	36918	3.37	2.0E-73	4557612	NT	Homo sapiens galactosylceramidase (Krabbe disease) (GALC), mRNA
11020	23692	36955	1.82	2.0E-73	AB028982.1	NT	Homo sapiens mRNA for KIAA1059 protein, partial cds
12993	14674		1.83	2.0E-73	AW898081.1	EST_HUMAN	RC3-NN0066-270400-011-c04 NN0066 Homo sapiens cDNA
1776	14518	27221	1.71	1.0E-73	AU121585.1	EST_HUMAN	AU121585 MAMMA1 Homo sapiens cDNA clone MAMMA1000490 5'
2488	15205	27946	1.12	1.0E-73	AF198349.1	NT	Gallus gallus Dach2 protein (Dach2) mRNA, complete cds
6268	19039	32015	1.07	1.0E-73	BE151283.1	EST_HUMAN	CM1-HT0282-111199-042-h10 HT0282 Homo sapiens cDNA
9399	22061	35230	1.37	1.0E-73	AI147427.1	EST_HUMAN	qg61b07.r1 Scores_testis_NHT Homo sapiens cDNA clone IMAGE:1839637 5' similar to contains element MER22 repetitive element;
11428	23195	36426	2.95	1.0E-73	BE385477.1	EST_HUMAN	60127607F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:3617105 5'

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Table 4
Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
723	13497	28150	1.06	8.0E-74	4557428	NT	Homo sapiens CD39-like 4 (CD39L4) mRNA
5824	18613	31544	2.2	8.0E-74	S83194.1	NT	Ca2+/calmodulin-dependent protein kinase IV kinase isoform [rats, brain, mRNA, 3429 nt]
5824	18613	31545	2.2	8.0E-74	S83194.1	NT	Ca2+/calmodulin-dependent protein kinase IV kinase isoform [rats, brain, mRNA, 3429 nt]
10791	23474		1.36	8.0E-74	N82239.1	EST_HUMAN	y46810.s1 Soares fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:245826 3'
1942	14677	27390	2.59	7.0E-74	AJ001698.1	NT	Homo sapiens NKG2D gene, exon 10
3322	16082	28732	1.08	7.0E-74	AL163246.2	NT	Homo sapiens chromosome 21 segment HS21C046
9142	21873	35038	2.83	7.0E-74	BE967432.1	EST_HUMAN	601849284F1 NIH_MGC_73 Homo sapiens cDNA clone IMAGE:3832897 5'
12505	24858	31011	5.51	7.0E-74	BE266305.1	EST_HUMAN	601191927F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3535855 5'
1100	13858	28518	2.4	6.0E-74	AF109907.1	NT	Homo sapiens S164 gene, partial cds; PS1 and hypothetical protein genes, complete cds; and S171 gene, partial cds
2314	15039	27776	11.78	6.0E-74	BE388280.1	EST_HUMAN	601283521F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3605453 5'
2314	15039	27777	11.78	6.0E-74	BE388280.1	EST_HUMAN	601283521F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3605453 5'
2867	15634	28279	1.32	6.0E-74	AW014039.1	EST_HUMAN	U1-H-B10-aah-h-03-q-U1.s1 NCL_CGAP_Sub1 Homo sapiens cDNA clone IMAGE:2709365 3'
2867	15634	28280	1.32	6.0E-74	AW014039.1	EST_HUMAN	U1-H-B10-aah-h-03-q-U1.s1 NCL_CGAP_Sub1 Homo sapiens cDNA clone IMAGE:2709365 3'
3700	16453	29092	1.34	6.0E-74	BE048846.1	EST_HUMAN	hr54e11.x1 NCL_CGAP_Kid11 Homo sapiens cDNA clone IMAGE:3123332 3'
3700	16453	29093	1.34	6.0E-74	BE048846.1	EST_HUMAN	hr54e11.x1 NCL_CGAP_Kid11 Homo sapiens cDNA clone IMAGE:3123332 3'
5281	18086	30744	3.02	6.0E-74	11056013	NT	Homo sapiens actin filament associated protein (AFAP), mRNA
885	13654	26322	7.33	6.0E-74	AW020988.1	EST_HUMAN	df17d09.y1 Morton Fetal Cochlea Homo sapiens cDNA clone IMAGE:2483704 5'
2706	15413		2.62	6.0E-74	AW362756.1	EST_HUMAN	PMD-CT0289-271099-001-h07 CT0289 Homo sapiens cDNA
5322	18125	30784	1.86	6.0E-74	11425417	NT	Homo sapiens phosphatidylinositol glycan, class L (PIGL), mRNA
5703	18497	31419	12.98	6.0E-74	X89670.1	NT	H. sapiens mRNA for TPCR16 protein
5748	18540	31462		6.0E-74		NT	Homo sapiens VAMP (vesicle-associated membrane protein)-associated protein A (33kD) (VAPA) mRNA, and translated products
5819	18608	31536	1.84	6.0E-74	11431471	NT	Homo sapiens interleukin 4 receptor (IL4R), mRNA
5819	18608	31537	1.84	6.0E-74	11431471	NT	Homo sapiens interleukin 4 receptor (IL4R), mRNA
6795	19539	32567	5.98	6.0E-74	7662263	NT	Homo sapiens interleukin 4 receptor (IL4R), mRNA
7569	19539	32567	0.6	6.0E-74	7662263	NT	Homo sapiens KIAA0716 gene product (KIAA0716), mRNA
7636	20631	33758	2.78	6.0E-74	11345483	NT	Homo sapiens KIAA0716 gene product (KIAA0716), mRNA
10636	23328	36565	2.56	6.0E-74	Y09420.1	NT	Homo sapiens hypothetical protein FLJ13222 (FLJ13222), mRNA
10636	23328	36566	2.56	6.0E-74	Y09420.1	NT	H. sapiens mRNA for HIP-1
10757	23442	36687	2.68	6.0E-74	5729766	NT	H. sapiens mRNA for HIP-1
273	13080	25723	1.79	4.0E-74	D87675.1	NT	Homo sapiens cell adhesion molecule with homology to L1CAM (close homologue of L1) (CHL1), mRNA
832	13602	26272	5.15	4.0E-74	AB028942.1	NT	Homo sapiens DNA for amyloid precursor protein, complete cds Homo sapiens mRNA for KIAA1019 protein, partial cds

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
1955	14890	27403	2.02	4.0E-74	AB028898.1	NT	Homo sapiens DNA, DLEC1 to ORCTL4 gene region, section 1/2 (DLEC1, ORCTL3, ORCTL4 genes, complete cds)
1955	14890	27404	2.02	4.0E-74	AB028898.1	NT	Homo sapiens DNA, DLEC1 to ORCTL4 gene region, section 1/2 (DLEC1, ORCTL3, ORCTL4 genes, complete cds)
2065	14797	27523	2.75	4.0E-74	4506192	NT	Homo sapiens proteasome (prosome, macropain) subunit, beta type, 1 (PSMB1) mRNA
2065	14797	27524	2.75	4.0E-74	4506192	NT	Homo sapiens proteasome (prosome, macropain) subunit, beta type, 1 (PSMB1) mRNA
2128	14859	27589	1.99	4.0E-74	AB032894.1	NT	Homo sapiens mRNA for KIAA1168 protein, partial cds
2427	15148	27882	27.23	4.0E-74	AJ006978.1	NT	Homo sapiens PLP gene
3088	15853	28495	5.2	4.0E-74	AJ006978.1	NT	Homo sapiens PLP gene
3518	16274	28828	0.82	4.0E-74	AL183210.2	NT	Homo sapiens chromosome 21 segment HS21C010
4041	16786	29414	1.03	4.0E-74	AL183247.2	NT	Homo sapiens chromosome 21 segment HS21C047
4520	17255	29889	2.23	4.0E-74	7662183	NT	Homo sapiens KIAA0569 gene product (KIAA0569), mRNA
4573	17308	29937	0.88	4.0E-74	Z17227.1	NT	Homo sapiens mRNA for transmembrane receptor protein
5015	17736	30343	0.96	4.0E-74	4504328	NT	Homo sapiens hydroxacyl-Coenzyme A dehydrogenase/3-ketacyl-Coenzyme A thiolase/enoyl-Coenzyme A hydratase (trifunctional protein), beta subunit (HADHB) mRNA
5015	17736	30344	0.96	4.0E-74	4504328	NT	Homo sapiens hydroxacyl-Coenzyme A dehydrogenase/3-ketacyl-Coenzyme A thiolase/enoyl-Coenzyme A hydratase (trifunctional protein), beta subunit (HADHB) mRNA
8448	21140		8.45	3.0E-74	AA300378.1	EST_HUMAN	EST13131 Thymus tumor III Homo sapiens cDNA 5' end similar to similar to ribosomal protein L37
8473	21165	34309	0.79	3.0E-74	9866912	NT	Homo sapiens actin-related protein 3-beta (ARP3BETA), mRNA
9272	22026	35186	2.99	3.0E-74	M78984.1	EST_HUMAN	EST01132 Subtracted Hippocampus, Strabagene (cat. #936205) Homo sapiens cDNA clone HHQPF91
10237	22885	36099	2.88	3.0E-74	AA601493.1	EST_HUMAN	not7g05.s1 NCI_CGAP_Phe1 Homo sapiens cDNA clone IMAGE:1100984 3'
938	13705	26370	175.01	2.0E-74	7669491	NT	Homo sapiens glyceraldehyde-3-phosphate dehydrogenase (GAPD), mRNA
938	13705	26371	175.01	2.0E-74	7669491	NT	Homo sapiens glyceraldehyde-3-phosphate dehydrogenase (GAPD), mRNA
1152	13907	26570	1.11	2.0E-74	AF020092.1	NT	Human endogenous retrovirus HERV-K-T47D
1222	13972	26644	1.36	2.0E-74	A1950528.1	EST_HUMAN	wx51e07.x1 NCI_CGAP_Lu28 Homo sapiens cDNA clone IMAGE:2547204 3' similar to SW:GG95_HUMAN Q08379 GOLGIN-96; contains element MER22 repetitive element
1590	14336	27024	3.79	2.0E-74	4885198	NT	Homo sapiens epidermal growth factor receptor (avian erythroblastic leukemia viral (v-erb-b) oncogene homolog) (EGFR) mRNA
1590	14336	27025	3.79	2.0E-74	4885198	NT	Homo sapiens epidermal growth factor receptor (avian erythroblastic leukemia viral (v-erb-b) oncogene homolog) (EGFR) mRNA
2609	15321	28063	0.94	2.0E-74	A1557280.1	EST_HUMAN	PT2.1_15_G11.r.tumor2 Homo sapiens cDNA 3'
4945	17872	30281	2.44	2.0E-74	AL355092.1	NT	Novel human gene mapping to chromosome 22
4945	17872	30282	2.44	2.0E-74	AL355092.1	NT	Novel human gene mapping to chromosome 22

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Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
4949	17676	30286	1.11	2.0E-74	J02963.1	NT	Human platelet glycoprotein IIb mRNA, 3' end
5709	25074	31424	2.5	2.0E-74	BE711134.1	EST_HUMAN	RC8-H10678-220500-011-C03 HT0678 Homo sapiens cDNA
5806	25077	31521	1.89	2.0E-74	11439587	NT	Homo sapiens PDZ-73 protein (PDZ-73/NY-CO-38), mRNA
5806	25077	31522	1.89	2.0E-74	11439587	NT	Homo sapiens PDZ-73 protein (PDZ-73/NY-CO-38), mRNA
5876	25077	31521	2.78	2.0E-74	11439587	NT	Homo sapiens PDZ-73 protein (PDZ-73/NY-CO-38), mRNA
5876	25077	31522	2.78	2.0E-74	11439587	NT	Homo sapiens PDZ-73 protein (PDZ-73/NY-CO-38), mRNA
7003	19695	32748	0.92	2.0E-74	BF030788.1	EST_HUMAN	601557524F1 NIH_MGC_58 Homo sapiens cDNA clone IMAGE:3827549 5'
7841	20536	33663	1.29	2.0E-74	AB037816.1	NT	Homo sapiens mRNA for KIAA1395 protein, partial cds
9282	22036	35208	6.06	2.0E-74	AL163204.2	NT	Homo sapiens chromosome 21 segment HS21C004
12234	24687		3.95	2.0E-74	AA196181.1	EST_HUMAN	z996a06.s1 Stratagene muscle 937209 Homo sapiens cDNA clone IMAGE:628018 3'
52	12881	25509	1.89	1.0E-74	7657334	EST_HUMAN	Homo sapiens Missipat/NIK-related kinase (MINK), mRNA
328	13129	25764	5.02	1.0E-74	AW816405.1	EST_HUMAN	QV4-S10234-181199-037-R05 S10234 Homo sapiens cDNA
487	13272	25907	1.05	1.0E-74	8922829	NT	Homo sapiens hypothetical protein FLJ11026 (FLJ11026), mRNA
493	13277	25912	13.6	1.0E-74	X02344.1	NT	Homo sapiens beta 2 gene
587	13367	25995	1.47	1.0E-74	4508020	NT	Homo sapiens zinc finger protein 259 (ZNF259) mRNA
765	13338	26197	1.81	1.0E-74	AB020640.1	NT	Homo sapiens mRNA for KIAA0833 protein, partial cds
978	13744	26406	2.27	1.0E-74	AL183248.2	NT	Homo sapiens chromosome 21 segment HS21C046
2223	14951	27680	4.39	1.0E-74	AB002059.1	NT	Homo sapiens DNA for Human P2XM, complete cds
3136	15900	28545	3.55	1.0E-74	4758697	NT	Homo sapiens mannosidase, alpha, class 2A, member 1 (MAN2A1), mRNA
3366	16125	28782	0.9	1.0E-74	AA258549.1	EST_HUMAN	z60c01.r1 Soares_NHMPu_S1 Homo sapiens cDNA clone IMAGE:667776 5'
3366	16125	28783	0.9	1.0E-74	AA258549.1	EST_HUMAN	z60c01.r1 Soares_NHMPu_S1 Homo sapiens cDNA clone IMAGE:667776 5'
3901	16651	29292	0.86	1.0E-74	4504116	NT	Homo sapiens glutamate receptor, ionotropic, kainate 1 (GRIK1) mRNA
3901	16651	29293	0.86	1.0E-74	4504116	NT	Homo sapiens glutamate receptor, ionotropic, kainate 1 (GRIK1) mRNA
3950	16700	29338	4.81	1.0E-74	AL183268.2	NT	Homo sapiens chromosome 21 segment HS21C068
4042	16787	29415	1.15	1.0E-74	BE083080.1	EST_HUMAN	RC2-BT0642-270300-019-06 BT0642 Homo sapiens cDNA
6605	19368	32380	1.86	1.0E-74	M89914.1	NT	Human neurofibromin (NF1) gene, complete cds
7526	20197	33291	1.15	1.0E-74	11417977	NT	Homo sapiens KIAA0852 protein (KIAA0852), mRNA
7955	20650	33773	1.13	1.0E-74	BE549105.1	EST_HUMAN	601070089F1 NIH_MGC_12 Homo sapiens cDNA clone IMAGE:3456260 5'
7955	20650	33774	1.13	1.0E-74	BE549105.1	EST_HUMAN	601070089F1 NIH_MGC_12 Homo sapiens cDNA clone IMAGE:3456260 5'
8704	21396	34543	4.92	1.0E-74	AF214562.1	NT	Homo sapiens tracheal epithelium enriched protein (PLUNC) gene, complete cds
8733	21425	34571	0.66	1.0E-74	BF351951.1	EST_HUMAN	MRO-HT0559-230500-021-a03 HT0559 Homo sapiens cDNA
10140	22788	36001	0.55	1.0E-74	AJ251550.1	NT	Homo sapiens partial AK155 gene for AK155 protein, exons 1-3 and joined CDS
10140	22788	36002	0.55	1.0E-74	AJ251550.1	NT	Homo sapiens partial AK155 gene for AK155 protein, exons 1-3 and joined CDS
10380	23026	36241	1.38	1.0E-74	11420549	NT	Homo sapiens hypothetical protein FLJ10783 (FLJ10783), mRNA

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
11885	24458	37800	2.92	1.0E-74	11417856	NT	Homo sapiens glutathione S-transferase theta 2 (GSTT2), mRNA
11965	24513		5.01	1.0E-74	11417856	NT	Homo sapiens glutathione S-transferase theta 2 (GSTT2), mRNA
12103	14951	27690	1.58	1.0E-74	AB002059.1	NT	Homo sapiens DNA for Human P2XM, complete cds
12567	24897		1.53	1.0E-74	AF240786.1	NT	Homo sapiens glutathione S-transferase theta 2 (GSTT2) and glutathione S-transferase theta 1 (GSTT1) genes, complete cds
2650	15360		3.68	8.0E-75	AF176228.1	NT	Homo sapiens DNA cytosine-5 methyltransferase 3B (DNMT3B) mRNA, complete cds
12254	24700		1.86	8.0E-75	AL163202.2	NT	Homo sapiens chromosome 21 segment HS21C002
2319	15044	27781	1.47	6.0E-75	AB17415.1	EST_HUMAN	wk38a08.x1 NCI_CGAP_P122 Homo sapiens cDNA clone IMAGE:2417654 3' similar to gb:M14123_cds4
7688	20352	33468	0.61	5.0E-75	AA573446.1	EST_HUMAN	RETROVIRUS-RELATED POL POLYPROTEIN (HUMAN);
7688	20352	33467	0.61	5.0E-75	AA573446.1	EST_HUMAN	nk99d03.s1 NCI_CGAP_C03 Homo sapiens cDNA clone IMAGE:1028933 3'
8806	21498	34643	0.94	5.0E-75	BE272325.1	EST_HUMAN	nk99d03.s1 NCI_CGAP_C03 Homo sapiens cDNA clone IMAGE:1028933 3'
9015	21705	34855	0.6	5.0E-75	AA132611.1	EST_HUMAN	601126088F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:2989865 5'
9093	21782	34946	0.78	5.0E-75	BE581655.1	EST_HUMAN	2017e08.r1 Stralagene cdon (4937204) Homo sapiens cDNA clone IMAGE:387174 5'
9093	21782	34947	0.78	5.0E-75	BE581655.1	EST_HUMAN	601346809F1 NIH_MGC_8 Homo sapiens cDNA clone IMAGE:3687458 5'
9273	22027	35197	1.53	5.0E-75	BF690254.1	EST_HUMAN	601346809F1 NIH_MGC_8 Homo sapiens cDNA clone IMAGE:3687458 5'
10134	22782	35993	2.39	5.0E-75	AF638623.1	EST_HUMAN	602186616T1 NIH_MGC_49 Homo sapiens cDNA clone IMAGE:4298738 3'
110	12931	25568	2.16	4.0E-75	BE081333.1	EST_HUMAN	k31c12.x1 NCI_CGAP_G08 Homo sapiens cDNA clone IMAGE:2242390 3' similar to TR:P97361 P97361
448	13232		1.02	4.0E-75	N36757.1	EST_HUMAN	HYPOTHETICAL 20.1 KD PROTEIN ;
1759	14501	27202	1.5	4.0E-75	AW897230.1	EST_HUMAN	QV1-BT0632-210200-079-e02 BT0632 Homo sapiens cDNA
2853	15621	28266	4.89	4.0E-75	BE409464.1	EST_HUMAN	yx90h08.r1 Soares melanocyte 2NbhM Homo sapiens cDNA clone IMAGE:269055 5'
3492	16248	28902	0.94	4.0E-75	BE409464.1	EST_HUMAN	CN0-NN0057-150400-335-a11 NN0057 Homo sapiens cDNA
5442	18241	31128	0.58	4.0E-75	8822637	NT	601303866F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3638344 5'
5442	18241	31129	0.56	4.0E-75	11417948	NT	Homo sapiens hypothetical protein FLJ10747 (FLJ10747), mRNA
6176	18959	31928	5.78	4.0E-75	11417948	NT	Homo sapiens NIPSNAP, C. elegans, homolog 1 (NIPSNAP1), mRNA
6661	19421	32436	2.26	4.0E-75	5579457	NT	Homo sapiens NIPSNAP, C. elegans, homolog 1 (NIPSNAP1), mRNA
6661	19421	32437	2.26	4.0E-75	11417948	NT	Homo sapiens eukaryotic translation initiation factor 3, subunit 8 (110K) (EIF3S8), mRNA
10584	23279	36517	18.12	4.0E-75	11417948	NT	Homo sapiens NIPSNAP, C. elegans, homolog 1 (NIPSNAP1), mRNA
982	13747	26409	3.72	3.0E-75	AF157623.1	NT	Homo sapiens NIPSNAP, C. elegans, homolog 1 (NIPSNAP1), mRNA
983	13747	26409	2.41	3.0E-75	AF157623.1	NT	Homo sapiens myosin, heavy polypeptide 1, skeletal muscle, adult (MYH1), mRNA
1828	14567	27279	2.76	3.0E-75	AB011153.1	NT	Homo sapiens HTRA serine protease (PRSS11) gene, complete cds
2105	14838	27570	1.11	3.0E-75	4507334	NT	Homo sapiens HTRA serine protease (PRSS11) gene, complete cds
2422	15143	27876	5.86	3.0E-75	4759153	NT	Homo sapiens mRNA for KIAA0581 protein, partial cds
							Homo sapiens synaplojanin 1 (SYNJ1), mRNA
							Homo sapiens synaplojanin-associated protein, 29kD (SNAP29) mRNA

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
3021	15787	28434	0.97	3.0E-75	AL163201.2	NT	Homo sapiens chromosome 21 segment HS21C001
3184	15947	28597	1.32	3.0E-75	AB011153.1	NT	Homo sapiens mRNA for KIAA0581 protein, partial cds
3345	16104	28757	0.76	3.0E-75	M72393.1	NT	Human calcium-dependent phospholipid-binding protein (PLA2) mRNA, complete cds
3346	16104	28758	0.76	3.0E-75	M72393.1	NT	Human calcium-dependent phospholipid-binding protein (PLA2) mRNA, complete cds
4147	16889	28521	3.27	3.0E-75	D87675.1	NT	Homo sapiens DNA for amyloid precursor protein, complete cds
4404	17141	29769	0.73	3.0E-75	7662421	NT	Homo sapiens KIAA0971 protein (KIAA0971), mRNA
5171	17980	30493	0.83	3.0E-75	11420956	NT	Homo sapiens adaptor-related protein complex 1, sigma 2 subunit (AP1S2), mRNA
5171	17980	30494	0.83	3.0E-75	11420956	NT	Homo sapiens adaptor-related protein complex 1, sigma 2 subunit (AP1S2), mRNA
6671	18688	32623	1.68	3.0E-75	11526319	NT	Homo sapiens HIR (histone cell cycle regulation defective, S. cerevisiae) homolog A (HIRA), mRNA
6671	18688	32624	1.68	3.0E-75	11526319	NT	Homo sapiens HIR (histone cell cycle regulation defective, S. cerevisiae) homolog A (HIRA), mRNA
7035	19727	32783	4.56	3.0E-75	7662209	NT	Homo sapiens KIAA0623 gene product (KIAA0623), mRNA
7035	19727	32784	4.56	3.0E-75	7662209	NT	Homo sapiens KIAA0623 gene product (KIAA0623), mRNA
7522	20193	33284	2.62	3.0E-75	4885632	NT	Homo sapiens Oncogene TIM (TIM) mRNA
7522	20193	33285	2.52	3.0E-75	4885632	NT	Homo sapiens Oncogene TIM (TIM) mRNA
8883	21574	34717	1.21	3.0E-75	11420804	NT	Homo sapiens snail 1 (drosophila homolog), zinc finger protein (SNA1), mRNA
9677	22230	35414	0.77	3.0E-75	11420222	NT	Homo sapiens Drosophila Kelch like protein (DKELCHL), mRNA
10440	23086	36314	2.28	3.0E-75	11436430	NT	Homo sapiens synuclein, alpha (non A4 component of amyloid precursor) (SNCA), mRNA
5587	18384		1.41	2.0E-75	AV734680.1	EST_HUMAN	AV734680 cDNA Homo sapiens cDNA clone IMAGE:1915898 3' similar to TR:Q69386 Q69386
8648	21340	34484	2.45	2.0E-75	AI311783.1	EST_HUMAN	q991a2.x1 NCL CGAP_Kid5 Homo sapiens cDNA clone IMAGE:726485 3' similar to gb:M13932 40S
2076	14808	27539	1.12	1.0E-75	4506328	NT	Homo sapiens protein tyrosine phosphatase, receptor-type, zeta polypeptide 1 (PTPRZ1) mRNA
2076	14808	27540	1.12	1.0E-75	4506328	NT	Homo sapiens protein tyrosine phosphatase, receptor-type, zeta polypeptide 1 (PTPRZ1) mRNA
2301	15026	27762	6.68	1.0E-75	AW168135.1	EST_HUMAN	xg60402.x1 NCL CGAP_U14 Homo sapiens cDNA clone IMAGE:2632707 3' similar to contains PTR7.H
2947	15713	28366	3.27	1.0E-75	X62221.1	NT	PTR7 repetitive element ;
8313	21008		4.27	1.0E-75	AA399270.1	EST_HUMAN	H.sapiens ERCC2 gene, exons 1 & 2 (partial)
9328	21995	35167	3.75	1.0E-75	BF313645.1	EST_HUMAN	z157h03.s1 Soares testis NHT Homo sapiens cDNA clone IMAGE:726485 3' similar to gb:M13932 40S
9328	21995	35168	3.75	1.0E-75	BF313645.1	EST_HUMAN	RIBOSOMAL PROTEIN S17 (HUMAN);
10797	23480		10.83	1.0E-75	AA694377.1	EST_HUMAN	601900294F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:4129678 5'
11033	23704	36672	2.86	1.0E-75	AF223391.1	NT	ac77b08.s1 Stragene lung (#937210) Homo sapiens cDNA clone IMAGE:868596 3'
							Homo sapiens calcium channel alpha1E subunit (CACNA1E) gene, exons 7,49, and partial cds, alternatively spliced

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Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
11860	24444	37785	1.38	1.0E-76	AA417112.1	EST_HUMAN	z104b03.r1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:730829 5'
12152	17912	30598	1.64	1.0E-75	BE894192.1	EST_HUMAN	601437130F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3922303 5'
43	12872	25493	1.24	9.0E-76	AI652648.1	EST_HUMAN	wb30b10.x1 NCI_CGAP_GC6 Homo sapiens cDNA clone IMAGE:2307163 3' similar to TR:O75235 O75235 TRAP1;
43	12872	25494	1.24	9.0E-76	AI652648.1	EST_HUMAN	wb30b10.x1 NCI_CGAP_GC6 Homo sapiens cDNA clone IMAGE:2307163 3' similar to TR:O75235 O75235 TRAP1;
9801	22452	35654	43.62	9.0E-76	M12837.1	NT	Human ferritin Heavy subunit mRNA, complete cds
917	13684	26347	1.06	8.0E-76	4504374	NT	Homo sapiens H factor 1 (complement) (HF1) mRNA
917	13684	26348	1.06	8.0E-76	4504374	NT	Homo sapiens H factor 1 (complement) (HF1) mRNA
2910	15676	28325	1	8.0E-76	7706724	NT	Homo sapiens mediator (Sur2), mRNA
6079	18868	31825	6.36	8.0E-76	11421442	NT	Homo sapiens LIM domain kinase 1 (LIMK1), mRNA
7388	20067	33145	1.26	8.0E-76	11435215	NT	Homo sapiens serine/threonine kinase 2 (STK2), mRNA
7485	20139	33231	0.86	8.0E-76	11419212	NT	Homo sapiens mitochondrial carrier family protein (LOC55972), mRNA
8195	20869	34027	0.87	8.0E-76	11416961	NT	Homo sapiens AIM-1 protein (LOC51151), mRNA
8995	21685	34835	0.55	8.0E-76	AB046764.1	NT	Homo sapiens mRNA for KIAA1544 protein, partial cds
10277	22925	36137	1.35	8.0E-76	M13792.1	NT	Human adenosine deaminase (ADA) gene, complete cds
10864	23260	36497	4.81	8.0E-76	10442821	NT	Homo sapiens baculoviral IAP repeat-containing 6 (BIRC6), mRNA
12491	24849		2	8.0E-76	11417862	NT	Homo sapiens calcineurin binding protein 1 (KIAA0330), mRNA
759	13531	26191	1.41	7.0E-76	5016092	NT	Homo sapiens dihydropyrimidine dehydrogenase (E3 component of pyruvate dehydrogenase complex, 2-oxo-glutarate complex, branched chain keto acid dehydrogenase complex) (DLD) mRNA
3288	16049	28697	2.97	7.0E-76	AF056490.1	NT	Homo sapiens cAMP-specific phosphodiesterase 8A (PDE8A) mRNA, partial cds
3294	16055	28704	7.55	7.0E-76	4505052	NT	Homo sapiens lymphocyte antigen 75 (LY75) mRNA, and translated products
3330	16090	28743	0.93	7.0E-76	4757915	NT	Homo sapiens core-binding factor, runt domain, alpha subunit 2; translocated to, 1; cyclin D-related (CBFA2T1) mRNA
4338	17077	29705	4.73	7.0E-76	4507184	NT	Homo sapiens septaplerin reductase (7,8-dihydrobiopterin:NADP+ oxidoreductase) (SPR) mRNA
1212	13962	29706	4.73	7.0E-76	4507184	NT	Homo sapiens septaplerin reductase (7,8-dihydrobiopterin:NADP+ oxidoreductase) (SPR) mRNA
11442	23209	36440	31.63	6.0E-76	BE396253.1	EST_HUMAN	601312019F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3658757 5'
1936	14671	27385	3.76	6.0E-76	BE273201.1	EST_HUMAN	601142253F1 NIH_MGC_14 Homo sapiens cDNA clone IMAGE:3508028 5'
1936	14671	27386	4.83	5.0E-76	D63874.1	NT	Human mRNA for HMG-1, complete cds
1936	14671	27387	4.83	5.0E-76	D63874.1	NT	Human mRNA for HMG-1, complete cds
5188	17996	30512	4.83	5.0E-76	D63874.1	NT	Human mRNA for HMG-1, complete cds
9923	22571	35768	1.26	4.0E-76	BE783412.1	EST_HUMAN	601471725F1 NIH_MGC_67 Homo sapiens cDNA clone IMAGE:3874470 5'
			6.42	4.0E-76	D81625.1	EST_HUMAN	HUM178G01B Human fetal brain (Tfujware) Homo sapiens cDNA clone GEN-178G01 5'

Table 4

Single Exon Probes Expressed in Brain

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9923	22571	35769	6.42	4.0E-76	D81625.1	EST_HUMAN	HUM178G01B Human fetal brain (Tfujlware) Homo sapiens cDNA clone GEN-178G01 5'
615	13393	26026	3.2	3.0E-76	BF516262.1	EST_HUMAN	UI-H-BW 1-anz-b-04-0-UI.s1 NCI_CGAP_Sub7 Homo sapiens cDNA clone IMAGE:3083862 3'
615	13393	26027	3.2	3.0E-76	BF516262.1	EST_HUMAN	UI-H-BW 1-anz-b-04-0-UI.s1 NCI_CGAP_Sub7 Homo sapiens cDNA clone IMAGE:3083862 3'
1594	14340	27029	3.28	3.0E-76	4503476	NT	Homo sapiens eukaryotic translation elongation factor 1 beta 2 (EEF1B2) mRNA
1594	14340	27030	3.28	3.0E-76	4503476	NT	Homo sapiens eukaryotic translation elongation factor 1 beta 2 (EEF1B2) mRNA
3422	16178	28828	4.96	3.0E-76	BF375689.1	EST_HUMAN	RC5-ST0300-180100-033-A03 ST0300 Homo sapiens cDNA
3422	16178	28829	4.96	3.0E-76	BF375689.1	EST_HUMAN	RC5-ST0300-180100-033-A03 ST0300 Homo sapiens cDNA
4058	18803	29434	1.07	3.0E-76	BE348693.1	EST_HUMAN	h67112.x1 NCI_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3151823 3' similar to TR:O94886 O94886
5158	17891	37796	2.07	3.0E-76	Z41314.1	EST_HUMAN	KIAA0782 PROTEIN ;
5646	18441	31354	1.09	3.0E-76	AA160811.1	EST_HUMAN	HSCZQD042 normalized infant brain cDNA Homo sapiens cDNA clone c-zqd04 3'
6275	18048	32025	9.57	3.0E-76	AF286598.1	NT	zo73c07.r1 Stralagene pancreas (#937208) Homo sapiens cDNA clone IMAGE:592524 5' similar to gb:L32976 MIXED LINEAGE KINASE 1 (HUMAN);
8050	20744	33877	0.88	3.0E-76	N42871.1	EST_HUMAN	Homo sapiens angiotensin binding protein 1 mRNA, complete cds
9618	22269	35456	3.34	3.0E-76	AW296353.1	EST_HUMAN	xy20g10.r1 Soares melanocyte 2NblHM Homo sapiens cDNA clone IMAGE:271842 5'
9641	22293	35487	0.99	3.0E-76	AA442309.1	EST_HUMAN	xe49h01.x1 NCI_CGAP_Kid11 Homo sapiens cDNA clone IMAGE:2773009 3'
9641	22293	35487	0.99	3.0E-76	AA442309.1	EST_HUMAN	z564d11.r1 Soares testis_NHT Homo sapiens cDNA clone IMAGE:757461 5'
11876	25181	30812	1.93	3.0E-76	AW967884.1	EST_HUMAN	z564d11.r1 Soares testis_NHT Homo sapiens cDNA clone IMAGE:757461 5'
11978	25398	30802	4.86	3.0E-76	AW958455.1	EST_HUMAN	EST380059 MAGe resequences, MAGJ Homo sapiens cDNA
275	13082	25725	1.59	2.0E-76	D84295.1	NT	EST388525 MAGe resequences, complete cds
333	13134	25768	4.39	2.0E-76	D84295.1	NT	Human mRNA for possible protein TPRDII, complete cds
333	13134	25769	4.39	2.0E-76	D84295.1	NT	Human mRNA for possible protein TPRDII, complete cds
448	13234		1.19	2.0E-76	4657662	NT	Human mRNA for possible protein TPRDII, complete cds
576	13356	25984	1.08	2.0E-76	4503944	NT	Human mRNA for possible protein TPRDII, complete cds
1008	13768	28430	1	2.0E-76	4758053	NT	Homo sapiens immunoglobulin (CD79A) binding protein 1 (IGBP1) mRNA
1526	14273	26960	1.91	2.0E-76	4504028	NT	Homo sapiens cAMP responsive element binding protein 1 (CREB1) mRNA
1526	14273	26961	1.91	2.0E-76	4504028	NT	Homo sapiens GM2 ganglioside activator protein (GM2A) mRNA
1921	14658	27369	0.91	2.0E-76	AA253954.1	EST_HUMAN	Homo sapiens GM2 ganglioside activator protein (GM2A) mRNA
2846	15614	28261	3.34	2.0E-76	P23266	SWISSPROT	zs60h11.s1 Stralagene schizo brain S11 Homo sapiens cDNA clone IMAGE:701925 3'
							OLFACTORY RECEPTOR-LIKE PROTEIN F5
3291	16052	28701	2.06	2.0E-76	AA445992.1	EST_HUMAN	zw64e02.s1 Soares testis_NHT Homo sapiens cDNA clone IMAGE:780986 3' similar to SW:ITB5_HUMAN
3291	16052	28702	2.06	2.0E-76	AA445992.1	EST_HUMAN	P18084 INTEGRIN BETA-5 SUBUNIT PRECURSOR ;
							zw64e02.s1 Soares testis_NHT Homo sapiens cDNA clone IMAGE:780986 3' similar to SW:ITB5_HUMAN
							P18084 INTEGRIN BETA-5 SUBUNIT PRECURSOR ;

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
3469	16225	28879	0.97	2.0E-76	A1821148.1	EST_HUMAN	ac83b02.v6 Strategene lung (#937210) Homo sapiens cDNA clone IMAGE:869163 5' similar to TR:O14591
4114	13082	25725	1.23	2.0E-76	D84285.1	NT	O14591 SIMILARITY TO P22059;
4895	17622	30240	6.21	2.0E-76	AW878618.1	EST_HUMAN	Human mRNA for possible protein TPRDII, complete cds
5055	17774	30390	1.49	2.0E-76	5031660	NT	QV3-O70028-220300-132-b11 OT0028 Homo sapiens cDNA
5226	18033		1.6	2.0E-76	AF127845.1	NT	Homo sapiens EGF-like repeats and discoidin-like domains 3 (EDIL3), mRNA
5531	18329	31233	6.47	2.0E-76	AB029004.1	NT	Gorilla gorilla olfactory receptor (GGO18) gene, partial cds
7334	20016	33094	0.75	2.0E-76	11426908	NT	Homo sapiens mRNA for KIAA1081 protein, partial cds
7560	20230	33333	1.91	2.0E-76	11427410	NT	Homo sapiens A kinase (PKA) anchor protein 10 (AKAP10), mRNA
10182	22630	36045	3.53	2.0E-76	11437211	NT	Homo sapiens TPCR86 protein (HSTPCR86P), mRNA
10839	23521	36763	3.58	2.0E-76	7549807	NT	Homo sapiens similar to ribosomal protein S28 (H. sapiens) (LOC63150), mRNA
4285	17006	29638	2.38	1.0E-76	D63874.1	NT	Homo sapiens HIRA interacting protein 4 (dnad-like) (HIRP4), mRNA
4265	17006	29639	2.38	1.0E-76	D63874.1	NT	Human mRNA for HMG-1, complete cds
5362	18164	30849	6.12	1.0E-76	BE796537.1	EST_HUMAN	Human mRNA for HMG-1, complete cds
6150	18927		0.72	1.0E-76	AA333207.1	EST_HUMAN	601589996F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3944302 5'
6825	19486	32508	4.53	8.0E-77	BE889525.1	EST_HUMAN	EST37301 Embryo, 8 week 1 Homo sapiens cDNA 5' end
12644	24941		1.4	9.0E-77	BE410354.1	EST_HUMAN	601512435F1 NIH_MGC_71 Homo sapiens cDNA clone IMAGE:3913737 5'
							601302333F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3636753 5'
182	12984	25633	0.92	8.0E-77	R83144.1	EST_HUMAN	yp11h02.r1 Soares breast 3NdbHst Homo sapiens cDNA clone IMAGE:187155 5' similar to
4488	17221	29849	1.09	8.0E-77	BF205181.1	EST_HUMAN	SP:ANKB_HUMAN Q01484 ANKYRIN, BRAIN VARIANT 1;
							601868928F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:4109503 5'
5366	18168	30854	1.74	8.0E-77	4506230	NT	Homo sapiens proteasome (prosome, macropain) 26S subunit, non-ATPase, 7 (Mox34 homolog) (PSMD7) mRNA
11360	24048	37351	1.91	8.0E-77	AA019770.1	EST_HUMAN	2662e02.r1 Soares retina N2b4HR Homo sapiens cDNA clone IMAGE:363578 5'
11360	24048	37352	1.91	8.0E-77	AA019770.1	EST_HUMAN	2662e02.r1 Soares retina N2b4HR Homo sapiens cDNA clone IMAGE:363578 5'
12620	24925	31008	4.02	8.0E-77	R00245.1	EST_HUMAN	ye89f04.s1 Soares fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:123007 3' similar to contains
1922	14659	27370	2.4	7.0E-77	AA625755.1	EST_HUMAN	MER10 repetitive element;
2411	15132	27668	2.52	7.0E-77	4505944	NT	zu9f901.s1 Soares testis NHT Homo sapiens cDNA clone IMAGE:746392 3'
2411	15132	27669	2.52	7.0E-77	4505944	NT	Homo sapiens polymerase (RNA) II (DNA directed) polypeptide E (25kD) (POLR2E) mRNA
256	13064	25703	8.53	6.0E-77	4504600	NT	Homo sapiens polymerase (RNA) II (DNA directed) polypeptide E (25kD) (POLR2E) mRNA
1534	14281	29869	3.22	6.0E-77	A1204066.1	EST_HUMAN	Homo sapiens interferon (alpha, beta and omega) receptor 2 (IFNAR2) mRNA
1214	13984	26631	2.11	5.0E-77	AF041015.1	NT	qe77h12.x1 Soares fetal_lung_NbHL19W Homo sapiens cDNA clone IMAGE:1745063 3'
1339	14087	28763	1.77	5.0E-77	4557250	NT	7 Homo sapiens glucokinase (GCK) gene, exon 2
2691	15400	28139	0.98	5.0E-77	AF162666.1	NT	Homo sapiens disintegrin and metalloprotease domain 10 (ADAM10) mRNA
							Homo sapiens taurine-like kinase 1 (TLK1) mRNA, complete cds

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Table 4
Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
2767	15472	28214	0.99	5.0E-77	4503160	NT	Homo sapiens cullin 1 (CUL1) mRNA
3512	18288	28923	0.89	5.0E-77	8394518	NT	Homo sapiens ubiquitin specific protease 18 (USP18), mRNA
4855	17389	30022	2.47	5.0E-77	5031660	NT	Homo sapiens EGF-like repeats and discoidin I-like domains 3 (EDIL3), mRNA
4855	17389	30023	2.47	5.0E-77	5031660	NT	Homo sapiens EGF-like repeats and discoidin I-like domains 3 (EDIL3), mRNA
4884	17611	30231	2.96	5.0E-77	AL043983.1	EST_HUMAN	DKFZp344G1728_r1 434 (synonym: htes3) Homo sapiens cDNA clone DKFZp344G1728 5'
6886	19603	32642	0.57	5.0E-77	M13975.1	NT	Homo sapiens protein kinase C beta-II type (PRKCB1) mRNA, complete cds
7730	20393	33508	0.59	5.0E-77	8923319	NT	Homo sapiens hypothetical protein FLJ20343 (FLJ20343), mRNA
8266	20960	34089	1.28	5.0E-77	11428849	NT	Homo sapiens 3-hydroxyisobutyryl-Coenzyme A hydrolase (HIBCH), mRNA
8266	20960	34100	1.28	5.0E-77	11428849	NT	Homo sapiens 3-hydroxyisobutyryl-Coenzyme A hydrolase (HIBCH), mRNA
9469	22078	35249	2.48	5.0E-77	11421928	NT	Homo sapiens sorting nexin 5 (SNX5), mRNA
9469	22078	35250	2.48	5.0E-77	11421928	NT	Homo sapiens sorting nexin 5 (SNX5), mRNA
10388	23034	36249	1.22	5.0E-77	AB002297.1	NT	Human mRNA for KIAA0299 gene, partial cds
10388	23034	36250	1.22	5.0E-77	AB002297.1	NT	Human mRNA for KIAA0299 gene, partial cds
11794	24384	37716	3.12	5.0E-77	U37194.1	NT	Human UNC-104- and KIF1A-related protein mRNA, partial cds
11794	24384	37717	3.12	5.0E-77	U37194.1	NT	Human UNC-104- and KIF1A-related protein mRNA, partial cds
1965	14701	27417	1.09	3.0E-77	5730038	NT	Homo sapiens SET domain and mariner transposase fusion gene (SETMAR) mRNA
1965	14701	27418	1.09	3.0E-77	5730038	NT	Homo sapiens SET domain and mariner transposase fusion gene (SETMAR) mRNA
10188	22836	38050	0.79	3.0E-77	H65167.1	EST_HUMAN	yu64g01.11 Weizmann Olfactory Epithelium: Homo sapiens cDNA clone IMAGE:238608 5' similar to SP:S17447 S17447 PROBABLE LIGAND-BINDING PROTEIN RY2G5 - ;
10188	22836	38051	0.79	3.0E-77	H65167.1	EST_HUMAN	yu64g01.11 Weizmann Olfactory Epithelium: Homo sapiens cDNA clone IMAGE:238608 5' similar to SP:S17447 S17447 PROBABLE LIGAND-BINDING PROTEIN RY2G5 - ;
10785	23488	36709	3.58	3.0E-77	BF359917.1	EST_HUMAN	PM3-MT0078-080800-005-g03 MT0078 Homo sapiens cDNA
1330	14079	28763	1.4	2.0E-77	AV764617.1	EST_HUMAN	AV764617 MDS Homo sapiens cDNA clone MDSBTF10 5'
1412	14160	28844	1.91	2.0E-77	AW997712.1	EST_HUMAN	RC3-BN0053-170200-011-h01 BN0053 Homo sapiens cDNA
2084	14816	27548	1.13	2.0E-77	L41825.1	NT	Homo sapiens CYP17 gene, 5' end
2086	14827	27560	5.23	2.0E-77	7706315	NT	Homo sapiens CYP17 protein (LOC51634), mRNA
2602	15599	28053	1.92	2.0E-77	AB037836.1	NT	Homo sapiens mRNA for KIAA1415 protein, partial cds
2602	15599	28054	1.92	2.0E-77	AB037836.1	NT	Homo sapiens mRNA for KIAA1415 protein, partial cds
4012	16758	29386	1.96	2.0E-77	BE044316.1	EST_HUMAN	ho43b05.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:3040113 3' similar to SW:GAG2_HUMAN P10264 RETROVIRUS-RELATED GAG POLYPROTEIN ;
4379	17116	29749	0.74	2.0E-77	A613519.1	EST_HUMAN	tw22g02.x1 NCL_CGAP_Brn52 Homo sapiens cDNA clone IMAGE:2280466 3' similar to TR:O65245
4379	17116	29750	0.74	2.0E-77	A613519.1	EST_HUMAN	tw22g02.x1 NCL_CGAP_Brn52 Homo sapiens cDNA clone IMAGE:2280466 3' similar to TR:O65245

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptbr
4557	17292		0.98	2.0E-77	4504088	NT	Homo sapiens glutamic-oxaloacetic transaminase 2, mitochondrial (aspartate aminotransferase 2) (GOT2), nuclear gene encoding mitochondrial protein, mRNA
4717	17449	30082					ns68g12.s1 NCL CGAP_P2 Homo sapiens cDNA clone IMAGE:1188838 similar to SW:RL29_HUMAN
5865	18652	31583	1.59	2.0E-77	AA653025.1	EST_HUMAN	P47914 60S RIBOSOMAL PROTEIN L29, [1], contains element MSR1 repetitive element ;
6080	18659	31828	1.9	2.0E-77	BE288940.1	EST_HUMAN	601119882F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:3029436 5'
			1.73	2.0E-77	BE787143.1	EST_HUMAN	601476802F1 NIH_MGC_68 Homo sapiens cDNA clone IMAGE:3879505 5'
7074	19765	32828	15.45	2.0E-77	AB833003.1	EST_HUMAN	at74a09.x1 Barstead colon HPLRB7 Homo sapiens cDNA clone IMAGE:2377720 3' similar to TR:Q13311
8427	21120	34259					Q13311 TAX1-BINDING PROTEIN TXBP151, [1];
8428	22106	35280	0.82	2.0E-77	AB362707.1	EST_HUMAN	q70c09.x1 NCL CGAP_Bm25 Homo sapiens cDNA clone IMAGE:2017360 3' similar to WP:F28D11.1
9428	22106	35281	5.05	2.0E-77	U50321.1	NT	CE05766 LOW DENSITY LIPID RECEPTOR-RELATED PROTEIN ;
9895	22545	35738	0.47	2.0E-77	BF310349.1	EST_HUMAN	Human protein kinase C substrate 80K-H (PRKCSH) gene, exon 7
9895	22545	35739	0.47	2.0E-77	BF310349.1	EST_HUMAN	Human protein kinase C substrate 80K-H (PRKCSH) gene, exon 7
42	12870	25489	1.03	1.0E-77	AB033102.1	NT	601895183F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:4124541 5'
42	12870	25490	1.03	1.0E-77	AB033102.1	NT	601895183F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:4124541 5'
							Homo sapiens mRNA for KIAA1276 protein, partial cds
							Homo sapiens mRNA for KIAA1276 protein, partial cds
266	13074	25714	7.19	1.0E-77	4502168	NT	Homo sapiens amyloid beta (A4) precursor protein (protease nexin-II, Alzheimer disease) (APP), mRNA
266	13074	25715	7.19	1.0E-77	4502168	NT	Homo sapiens amyloid beta (A4) precursor protein (protease nexin-II, Alzheimer disease) (APP), mRNA
855	15554	26296	17.31	1.0E-77	4502168	NT	Homo sapiens amyloid beta (A4) precursor protein (protease nexin-II, Alzheimer disease) (APP), mRNA
855	15554	26297	17.31	1.0E-77	4502168	NT	Homo sapiens amyloid beta (A4) precursor protein (protease nexin-II, Alzheimer disease) (APP), mRNA
1912	14849	27360	0.9	1.0E-77	AW058119.1	EST_HUMAN	Homo sapiens amyloid beta (A4) precursor protein (protease nexin-II, Alzheimer disease) (APP), mRNA
2445	15184	27802	1.32	1.0E-77	AB028024.1	NT	w83e05.x1 Spares_thymus_NHFFth Homo sapiens cDNA clone IMAGE:2536160 3'
3040	15806	28451	1.72	1.0E-77	4503300	NT	Homo sapiens mRNA for KIAA1101 protein, complete cds
4320	17059	29884	3.37	1.0E-77	7706289	NT	Homo sapiens 2,4-dienoyl CoA reductase 1, mitochondrial (DEOR1), mRNA
4488	17223	29851	16.41	1.0E-77	AJ229041.1	NT	Homo sapiens CGI-60 protein (LOC51626), mRNA
4603	17338	29967	2.29	1.0E-77	6552322	NT	Homo sapiens 959 kb contig between AML1 and CBR1 on chromosome 21q22; segment 1/3
5010	17732	30337	1	1.0E-77	7661849	NT	Homo sapiens breast cancer 1, early onset (BRCA1), transcript variant BRCA1-exon4, mRNA
5010	17732	30338	1	1.0E-77	7661849	NT	Homo sapiens KIAA0005 gene product (KIAA0005), mRNA
5838	18627	31561	2.45	1.0E-77	AF086944.1	NT	Homo sapiens KIAA0005 gene product (KIAA0005), mRNA
							Homo sapiens dynactin 1 (DCTN1) gene, exons 27 and 28

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
5839	18627	31562	2.45	1.0E-77	AF086944.1	NT	Homo sapiens dynactin 1 (DCTN1) gene, exons 27 and 28
5958	18738	31697	1.4	1.0E-77	M25844.1	NT	Human von Willebrand factor gene, exon 20
6358	19126	32120	0.82	1.0E-77	4885182	NT	Homo sapiens diaphanous (Drosophila, homolog) 1 (DIAPH1), mRNA
6953	19435	32450	21.7	1.0E-77	5881412	NT	Homo sapiens elastin (supraaortic stenosis, Williams-Beuren syndrome) (ELN), mRNA
7584	20234	33338	1.05	1.0E-77	11420159	NT	Homo sapiens cullin 1 (CUL1), mRNA
7663	20327	33437	0.69	1.0E-77	X04571.1	NT	Human mRNA for kidney epidermal growth factor (EGF) precursor
9165	21835	35000	0.62	1.0E-77	X94354.1	NT	H. sapiens DNA for Cone cGMP-PDE gene
9165	21835	35001	0.62	1.0E-77	X94354.1	NT	H. sapiens DNA for Cone cGMP-PDE gene
10421	23067	35288	3.1	1.0E-77	AB029396.1	NT	Homo sapiens hu-GlcAT-P mRNA for glucuronyltransferase, complete cds
10421	23067	35289	3.1	1.0E-77	AB029396.1	NT	Homo sapiens hu-GlcAT-P mRNA for glucuronyltransferase, complete cds
10449	23095	36326	2.55	9.0E-78	AW753302.1	EST_HUMAN	RC3-CT0254-280989-011-b05 CT0254 Homo sapiens cDNA
6354	19124	32117	3.11	8.0E-78	AW947061.1	EST_HUMAN	RC2-ET0023-080500-012-e05 ET0023 Homo sapiens cDNA
6354	19124	32118	3.11	8.0E-78	AW947061.1	EST_HUMAN	RC2-ET0023-080500-012-e05 ET0023 Homo sapiens cDNA
84	12910	25548	1.87	6.0E-78	AU118789.1	EST_HUMAN	AU118789 HEMBA1 Homo sapiens cDNA clone HEMBA1004354 5'
84	12910	25549	1.87	6.0E-78	AU118789.1	EST_HUMAN	AU118789 HEMBA1 Homo sapiens cDNA clone HEMBA1004354 5'
6485	19232		2.54	6.0E-78	11432710	NT	Homo sapiens GDNF family receptor alpha 1 (GFRA1), mRNA
212	13024	25663	0.72	6.0E-78	11422488	NT	Homo sapiens hypothetical protein FLJ11316 (FLJ11316), mRNA
2567	15281	28019	5.53	5.0E-78	AW673424.1	EST_HUMAN	ba64h03.y3 NIH_MGC_10 Homo sapiens cDNA clone IMAGE:2800405 5' similar to WP:Y4889A.6
3380	16139	28797	3.81	5.0E-78	M55586.1	NT	CE22121 ;
5327	18130	30789	2.33	5.0E-78	AF038536.1	NT	Human collagenase type IV (CLG4) gene, exon 6
5488	18287	31183	11.12	5.0E-78	11416585	NT	Homo sapiens Best's macular dystrophy related protein mRNA, partial cds
7054	19745	32808	2.23	5.0E-78	AW953120.1	EST_HUMAN	Homo sapiens transforming growth factor, beta-induced, 88kd (TGFB1), mRNA
8981	21671	34821	6.78	5.0E-78	U60889.1	NT	EST T385190 MAGC resequences, MAGB Homo sapiens cDNA
8982	21672	34822	3.31	5.0E-78	BE960836.1	EST_HUMAN	Human lysosomal alpha-mannosidase (manB) gene, exon 7
1115	13872	26531	1.07	4.0E-78	AL043314.2	EST_HUMAN	601648061F1 NIH_MGC_92 Homo sapiens cDNA clone IMAGE:3831887 5'
1508	14254	26940	1.78	4.0E-78	AL355841.1	NT	DKFZp434N0323_r1 434 (synonym: hhes3) Homo sapiens cDNA clone DKFZp434N0323 5'
							Novel human gene mapping to chromosome 22
1644	14390	27079	1.09	4.0E-78	A1985094.1	EST_HUMAN	w197b12.x1 NCL CGAP_Kid11 Homo sapiens cDNA clone IMAGE:2495615 3' similar to SW:WAP_PIG
2318	15041	27779	2.08	4.0E-78	AF107405.1	NT	O46655 WHEY ACIDIC PROTEIN PRECURSOR ;
4288	17027	29652	1.73	4.0E-78	7658876	NT	Homo sapiens pre-mRNA splicing factor (SFRS3) mRNA, complete cds
4722	17454	30088	2.61	4.0E-78	4505806	NT	Homo sapiens synovial (LOC30816), mRNA
4722	17454	30089	2.61	4.0E-78	4505806	NT	Homo sapiens phosphatidylinositol 4-kinase, catalytic, alpha polypeptide (PIK4CA) mRNA
5681	18474	31391	1.41	4.0E-78	11420732	NT	Homo sapiens SFRS protein kinase 2 (SRPK2), mRNA

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Table 4
Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
7390	20069	33148	0.58	4.0E-78	4506736	NT	Homo sapiens ribosomal protein S6 kinase, 70kD, polypeptide 1 (RPS6KB1) mRNA
8752	21444	34591	2.86	4.0E-78	AF012872.1	NT	Homo sapiens phosphatidylinositol 4-kinase 230 (pi4K230) mRNA, complete cds
8752	21444	34592	2.86	4.0E-78	AF012872.1	NT	Homo sapiens phosphatidylinositol 4-kinase 230 (pi4K230) mRNA, complete cds
9268	22022	35192	0.6	4.0E-78	11417251	NT	Homo sapiens X-ray repair complementing defective repair in Chinese hamster cells 4 (XRCC4), mRNA
10342	22889	36206	1.96	4.0E-78	11560151	NT	Homo sapiens hypothetical C2H2 zinc finger protein FLJ22504 (FLJ22504), mRNA
10342	22889	36207	1.96	4.0E-78	11560151	NT	Homo sapiens hypothetical C2H2 zinc finger protein FLJ22504 (FLJ22504), mRNA
11396	24002	37305	5.18	4.0E-78	AF169148.1	NT	Homo sapiens s-CaBP1 (CABP1) mRNA, complete cds
11547	24146	37456	2.15	4.0E-78	X05844.1	NT	Human transforming growth factor-beta precursor gene exons 4-5 (and joined mature peptide)
12517	24866	31016	3.57	4.0E-78	AB011399.1	NT	Homo sapiens gene for AF-8, complete cds
157	12972	25610	1.39	3.0E-78	AF098901.1	NT	Homo sapiens eRF1 gene, complete cds
157	12972	25611	1.39	3.0E-78	AF098901.1	NT	Homo sapiens eRF1 gene, complete cds
3748	16499	29181	0.98	3.0E-78	AF095901.1	NT	Homo sapiens eRF1 gene, complete cds
3796	16548	29181	0.72	3.0E-78	AF095901.1	NT	Homo sapiens eRF1 gene, complete cds
4084	16548	29181	0.96	3.0E-78	AF095901.1	NT	Homo sapiens eRF1 gene, complete cds
5094	17813	30430	0.93	3.0E-78	4507334	NT	Homo sapiens synaptobrevin 1 (SYNJ1), mRNA
10186	22834	36832	5.14	3.0E-78	BE144758.1	NT	Homo sapiens synaptobrevin 1 (SYNJ1), mRNA
10902	23582	36832	1.97	3.0E-78	BE144758.1	EST_HUMAN	Homo sapiens synaptobrevin 1 (SYNJ1), mRNA
3119	15884	3119	2.17	2.0E-78	U04489.1	EST_HUMAN	Homo sapiens synaptobrevin 1 (SYNJ1), mRNA
3995	16743	33126	1.87	2.0E-78	AA311872.1	EST_HUMAN	Homo sapiens synaptobrevin 1 (SYNJ1), mRNA
7367	20047	33126	1.54	2.0E-78	AA311872.1	EST_HUMAN	Homo sapiens synaptobrevin 1 (SYNJ1), mRNA
7367	20047	33127	1.54	2.0E-78	AA311872.1	EST_HUMAN	Homo sapiens synaptobrevin 1 (SYNJ1), mRNA
7631	20297	33405	3.99	2.0E-78	BF689800.1	EST_HUMAN	Homo sapiens synaptobrevin 1 (SYNJ1), mRNA
7940	20635	33762	2.33	2.0E-78	AF171417.1	EST_HUMAN	Homo sapiens synaptobrevin 1 (SYNJ1), mRNA
8351	21044	34180	1.4	2.0E-78	AF1557509.1	EST_HUMAN	Homo sapiens synaptobrevin 1 (SYNJ1), mRNA
8351	21044	34181	1.4	2.0E-78	AF1557509.1	EST_HUMAN	Homo sapiens synaptobrevin 1 (SYNJ1), mRNA
11017	23689	36952	3.27	2.0E-78	AF197837.1	EST_HUMAN	Homo sapiens synaptobrevin 1 (SYNJ1), mRNA
11068	23738	37012	3.89	2.0E-78	N66951.1	EST_HUMAN	Homo sapiens synaptobrevin 1 (SYNJ1), mRNA
4123	16865	29491	3.07	1.0E-78	4507098	NT	Homo sapiens synaptosomal-associated protein, 25kD (SNAP25) mRNA
4123	16865	29492	3.07	1.0E-78	4507098	NT	Homo sapiens synaptosomal-associated protein, 25kD (SNAP25) mRNA
5222	18029	30655	2.93	1.0E-78	11417304	NT	Homo sapiens GAP-like protein (LOC51308), mRNA
6857	17934	30570	0.76	1.0E-78	AF648699.1	EST_HUMAN	Homo sapiens GAP-like protein (LOC51308), mRNA
7736	20401	33517	0.55	1.0E-78	AU122163.1	EST_HUMAN	Homo sapiens GAP-like protein (LOC51308), mRNA

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Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
8059	20753		3.28	1.0E-78	U52373.1	NT	Human serine/threonine kinase MNB (mnb) mRNA, complete cds
12045	24565	31117	1.39	1.0E-78	11430460	NT	Homo sapiens low density lipoprotein-related protein 2 (LRP2), mRNA
12477	25244	30718	1.55	1.0E-78	AI650919.1	EST_HUMAN	wa20b08.xt NCJ_CGAP_Kid11 Homo sapiens cDNA clone IMAGE:2298615 3'
4650	17394	30016	4.05	9.0E-79	11528891	NT	Homo sapiens peptide YY (PYY), mRNA
4811	17542	30196	8.05	9.0E-79	BE000837.1	EST_HUMAN	RC2-BN0074-090300-014-c12 BN0074 Homo sapiens cDNA
5346	18149	30829	16.87	9.0E-79	AB028070.1	NT	Homo sapiens mRNA for activator of S phase Kinase, complete cds
6248	19022	31994	2.38	9.0E-79	5454145	NT	Homo sapiens ubiquitin-conjugating enzyme E2E 3 (homologous to yeast UBC4/5) (UBE2E3) mRNA
7251	25108		0.99	9.0E-79	11424427	NT	Homo sapiens hypothetical protein FLJ20345 (FLJ20345), mRNA
7473	20146	33239	0.79	9.0E-79	11421735	NT	Homo sapiens cAMP response element-binding protein CRE-BPa (H_GS165L15.1), mRNA
7473	20146	33240	0.79	9.0E-79	11421735	NT	Homo sapiens cAMP response element-binding protein CRE-BPa (H_GS165L15.1), mRNA
8244	20938	34074	0.49	9.0E-79	11417260	NT	Homo sapiens threonyl-tRNA synthetase (TARS), mRNA
8244	20938	34075	0.49	9.0E-79	11417260	NT	Homo sapiens threonyl-tRNA synthetase (TARS), mRNA
8961	21652	34802	5.1	9.0E-79	J02853.1	NT	Homo sapiens casein kinase II alpha subunit mRNA, complete cds
8961	21652	34803	5.1	9.0E-79	J02853.1	NT	Homo sapiens casein kinase II alpha subunit mRNA, complete cds
9280	22034	35206	0.58	9.0E-79	D87675.1	NT	Homo sapiens DNA for amyloid precursor protein, complete cds
10263	22911	36121	0.82	9.0E-79	11438643	NT	Homo sapiens hypothetical protein FLJ20535 (FLJ20535), mRNA
10318	22965	36182	1.73	9.0E-79	AF062346.1	NT	Homo sapiens zinc finger protein 216 splice variant 1 (ZNF216) mRNA, complete cds
10318	22965	36183	1.73	9.0E-79	AF062346.1	NT	Homo sapiens zinc finger protein 216 splice variant 1 (ZNF216) mRNA, complete cds
11001	23674	36930	3.13	9.0E-79	AY008273.1	NT	Homo sapiens TRAF6-regulated IKK activator 1 beta Uev1A mRNA, complete cds
11497	24098	37410	3.55	9.0E-79	11423827	NT	Homo sapiens suppressor of white apricot homolog 2 (SWAP2), mRNA
11497	24098	37411	3.55	9.0E-79	11423827	NT	Homo sapiens suppressor of white apricot homolog 2 (SWAP2), mRNA
3725	16478	29115	0.91	8.0E-79	AL183210.2	NT	Homo sapiens chromosome 21 segment HS21C010
11966	17910	30596	1.82	8.0E-79	8567387	NT	Homo sapiens perid (Drosophila) homolog 3 (PER3), mRNA
3247	16009	28660	26.39	7.0E-79	BE619648.1	EST_HUMAN	601472766T1 NIH_MGC_68 Homo sapiens cDNA clone IMAGE:3875657 3'
11899	24466		4.32	6.0E-79	AA698829.1	EST_HUMAN	z94e04.s1 Soares_fetal_liver_spleen_1NFLS_S1 Homo sapiens cDNA clone IMAGE:462558 3' similar to TR:Q15408 Q15408 NEUTRAL PROTEASE LARGE SUBUNIT ;
11478	24079	37380	2.52	5.0E-79	AL163282.2	NT	Homo sapiens chromosome 21 segment HS21C082
3173	15936		1.49	4.0E-79	8922325	NT	Homo sapiens chromosome 21 segment HS21C082
305	13109	25749	1.28	3.0E-79	AF114488.1	NT	Homo sapiens intersecin short isoform (ITSN) mRNA, complete cds
957	13722	26388	3.85	3.0E-79	AF232708.1	NT	Homo sapiens cell-line tsA201a chloride ion current inducer protein (Cln) gene, complete cds
3095	15860	28501	1.51	3.0E-79	U09410.1	NT	Human zinc finger protein ZNF131 mRNA, partial cds
5277	18082	30738	5.24	3.0E-79	AF110322.1	NT	Homo sapiens MST016 (MST016) mRNA, complete cds
5637	18432	31345	1.24	3.0E-79	AB020699.1	NT	Homo sapiens mRNA for KIAA0892 protein, partial cds

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Single Exon Probes Expressed in Brain

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5662	18457	31371	0.93	3.0E-79	BE789470.1	EST_HUMAN	601482143F1 NIH_MGC_68 Homo sapiens cDNA clone IMAGE:3884554 5'
5662	18457	31372	0.93	3.0E-79	BE789470.1	EST_HUMAN	601482143F1 NIH_MGC_68 Homo sapiens cDNA clone IMAGE:3884554 5'
5682	18475	31392	3.56	3.0E-79	11426770	NT	Homo sapiens netrin 1 (NTN1), mRNA
5682	18475	31393	3.56	3.0E-79	11426770	NT	Homo sapiens netrin 1 (NTN1), mRNA
6846	19408	32422	0.67	3.0E-79	BE256893.1	EST_HUMAN	60112055F1 NIH_MGC_16 Homo sapiens cDNA clone IMAGE:3352885 5'
6960	19442	32457	3.35	3.0E-79	AB014520.1	NT	Homo sapiens mRNA for KIAA0620 protein, partial cds
7726	20369	33503	3.35	3.0E-79	AB014520.1	NT	Homo sapiens mRNA for KIAA0620 protein, partial cds
8064	20758	33887	0.78	3.0E-79	6912455	NT	Homo sapiens guanine nucleotide exchange factor for Rap1 (KIAA0277), mRNA
8083	21970	35144	1.61	3.0E-79	AF249273.1	NT	Homo sapiens Bcl-2-associated transcription factor short form mRNA, complete cds
10245	22893		1.33	3.0E-79	10835036	NT	Homo sapiens tetratricopeptide repeat domain 3 (TTC3), mRNA
10768	23452	36694	1.24	3.0E-79	AV698115.1	EST_HUMAN	AV698115 GKCC Homo sapiens cDNA clone GKCAHE11 5'
10768	23452	36695	1.52	3.0E-79	AF249273.1	NT	Homo sapiens Bcl-2-associated transcription factor short form mRNA, complete cds
281	13088		0.89	2.0E-79	H63129.1	EST_HUMAN	y4803.s1 Soares fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:208541 3'
619	13998	26033	1.6	2.0E-79	BE379926.1	EST_HUMAN	601159415F2 NIH_MGC_53 Homo sapiens cDNA clone IMAGE:3511107 5'
907	13974	26339	2.28	2.0E-79	4757841	EST_HUMAN	Homo sapiens BCL2-like 2 (BCL2L2) mRNA
1012	13772		2.09	2.0E-79	AI523747.1	EST_HUMAN	th18h07.x1 NCL_CGAP_P28 Homo sapiens cDNA clone IMAGE:2118685 3'
1781	14522	27226	1.12	2.0E-79	7657024	NT	Homo sapiens Dickkopf gene 4 (DKK-4), mRNA
2144	14874	27607	5.93	2.0E-79	7657024	NT	Homo sapiens Dickkopf gene 4 (DKK-4), mRNA
2144	14874	27608	5.93	2.0E-79	4585863	NT	Homo sapiens phosphodiesterase 6A, cGMP-specific, rod, alpha (PDE6A), mRNA
2189	14918	27652	1.07	2.0E-79	AJ271408.1	NT	Homo sapiens phosphodiesterase 6A, cGMP-specific, rod, alpha (PDE6A), mRNA
2721	15428	28166	1.08	2.0E-79	AB023154.1	NT	Homo sapiens mRNA for Fas-associated factor, FAF1 (Faf1 gene)
3863	16643	29283	0.83	2.0E-79	AF170492.1	NT	Homo sapiens mRNA for Fas-associated factor, FAF1 (Faf1 gene)
4144	16886	29517	1.09	2.0E-79	AJ271408.1	NT	Homo sapiens mRNA for Fas-associated factor, FAF1 (Faf1 gene)
5595	18382		1.22	2.0E-79	AA312223.1	EST_HUMAN	EST182926 Jurkat T-cells VI Homo sapiens cDNA 5' end similar to C. elegans hypothetical protein, cosmid B0303.15
5640	18435	31348	0.8	2.0E-79	11181769	NT	Homo sapiens X transporter protein 3 (XT3), mRNA
6149	18926	31896	1.14	2.0E-79	AB020637.1	NT	Homo sapiens mRNA for KIAA0830 protein, partial cds
6864	17941	30577	0.89	2.0E-79	AF263613.1	NT	Homo sapiens membrane-associated calcium-independent phospholipase A2 gamma mRNA, complete cds
7067	19756	32822	1.7	2.0E-79	7382479	NT	Homo sapiens Rho GTPase activating protein 6 (ARHGAP6), transcript variant 4, mRNA
7067	19758	32823	1.7	2.0E-79	7382479	NT	Homo sapiens Rho GTPase activating protein 6 (ARHGAP6), transcript variant 4, mRNA
7999	20694	33821	1.08	2.0E-79	4506442	NT	Homo sapiens retinoblastoma-like 1 (p107) (RBL1) mRNA

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
8415	21108	34247	2.25	2.0E-79	11427428	NT	Homo sapiens hypothetical protein FLJ11006 (FLJ11006), mRNA
8684	21356	34503	0.58	2.0E-79	8923248	NT	Homo sapiens hypothetical protein FLJ20275 (FLJ20275), mRNA
8684	21356	34504	0.58	2.0E-79	8923248	NT	Homo sapiens hypothetical protein FLJ20275 (FLJ20275), mRNA
8902	21583	34734	1.65	2.0E-79	11432184	NT	Homo sapiens similar to ATPase, H+ transporting, lysosomal (vacuolar proton pump) membrane sector associated protein MB-9 (H. sapiens) (LOC63961), mRNA
9992	22640	35850	1.44	2.0E-79	S72868.1	NT	H4(D10S170)-putative cytoskeletal protein [human, thyroid, mRNA, 3011 nt]
9992	22640	35851	1.44	2.0E-79	S72869.1	NT	H4(D10S170)-putative cytoskeletal protein [human, thyroid, mRNA, 3011 nt]
10698	23389	36627	12.34	2.0E-79	U07819.1	NT	Human contactin 1 precursor (CNTN1) mRNA, complete cds
10956	23632	36880	4.05	2.0E-79	BE064386.1	EST_HUMAN	RC4-BT0310-110300-015-f10 BT0310 Homo sapiens cDNA
10956	23632	36881	4.05	2.0E-79	BE064386.1	EST_HUMAN	RC4-BT0310-110300-015-f10 BT0310 Homo sapiens cDNA
11938	17808	30594	2.16	2.0E-79	7662357	NT	Homo sapiens KIAA0879 protein (KIAA0879), mRNA
12018	24548	31108	5.19	2.0E-79	AB020840.1	NT	Homo sapiens mRNA for KIAA0833 protein, partial cds
12238	24890	31075	2.89	2.0E-79	11418322	NT	Homo sapiens cadherin EGF LAG seven-pass G-type receptor 1 (CELSR1), mRNA
6482	25091	33607	3.78	1.0E-79	BF363071.1	EST_HUMAN	MRO-NN0087-260800-017-b10 NN0087 Homo sapiens cDNA
8143	20837	33969	0.78	1.0E-79	BE394211.1	EST_HUMAN	601311517F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3632609 5'
11623	24220	37543	2.05	1.0E-79	BF087405.1	EST_HUMAN	QV2-HT0640-120900-358-a05 HT0640 Homo sapiens cDNA
12047	25333		1.8	1.0E-79	A1480115.1	EST_HUMAN	ar79a04.x1 Barstead colon HPLRB7 Homo sapiens cDNA clone IMAGE:2151438 3'
3143	15907	28551	2.35	9.0E-80	AA725848.1	EST_HUMAN	al23a05.s1 Soares_testis_NHT Homo sapiens cDNA clone 1343648 3'
3143	15907	28552	2.35	9.0E-80	AA725848.1	EST_HUMAN	al23a05.s1 Soares_testis_NHT Homo sapiens cDNA clone 1343648 3'
9912	22661	35757	1.14	8.0E-80	BE798603.1	EST_HUMAN	601581652F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3936061 5'
11245	23907	37199	8.66	9.0E-80	11433924	NT	Homo sapiens solute carrier family 7 (cationic amino acid transporter, y+ system), member 8 (SLC7A8), mRNA
11245	23907	37200	8.66	9.0E-80	11433924	NT	Homo sapiens solute carrier family 7 (cationic amino acid transporter, y+ system), member 8 (SLC7A8), mRNA
3598	16342		1.31	8.0E-80	U94387.1	NT	Homo sapiens Y chromosome spermatogenesis candidate protein (RBM) pseudogene mRNA, partial cds
7504	20175	33268	3.07	8.0E-80	11422647	NT	Homo sapiens KIAA0724 gene product (KIAA0724), mRNA
7504	20175	33269	3.07	8.0E-80	11422647	NT	Homo sapiens KIAA0724 gene product (KIAA0724), mRNA
8302	21969	35142	1.13	8.0E-80	6005921	NT	Homo sapiens triple functional domain (PTPRF interacting) (TRIO), mRNA
8302	21969	35143	1.13	8.0E-80	6005921	NT	Homo sapiens triple functional domain (PTPRF interacting) (TRIO), mRNA
880	13649	26318	1.12	6.0E-80	AI422197.1	EST_HUMAN	tf58d02.x1 NCL_OGAP_Bm23 Homo sapiens cDNA clone IMAGE:2103459 3' similar to SW:NUEM_HUMAN
1638	14384	27071	2.22	6.0E-80	U64898.1	NT	Q16795 NADH-UBIQUINONE OXIDOREDUCTASE 39 KD SUBUNIT PRECURSOR ; Homo sapiens NRD convertase mRNA, complete cds

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Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
4252	16993	29820	1.08	6.0E-80	AB032981.1	NT	Homo sapiens mRNA for KIAA1155 protein, partial cds
4252	16993	29821	1.08	6.0E-80	AB032981.1	NT	Homo sapiens mRNA for KIAA1155 protein, partial cds
5712	18505	31427	1.79	6.0E-80	11421462	NT	Homo sapiens malate dehydrogenase 2, NAD (mitochondrial) (MDH2), mRNA
5984	18765	31729	3.37	6.0E-80	AJ404488.1	NT	Homo sapiens mRNA for dynein heavy chain (DNAH9 gene)
6135	18913	31882	4.69	6.0E-80	11436736	NT	Homo sapiens tubby like protein 3 (TULP3), mRNA
6179	18956		1.17	6.0E-80	7662393	NT	Homo sapiens KIAA0941 protein (KIAA0941), mRNA
6230	19004	31980	0.96	6.0E-80	M18533.1	NT	Homo sapiens dystrophin (DMD) mRNA, complete cds
8723	21415	34558	3.22	6.0E-80	11526464	NT	Homo sapiens G protein-coupled receptor 51 (GPR51), mRNA
8723	21415	34559	3.22	6.0E-80	11528484	NT	Homo sapiens G protein-coupled receptor 51 (GPR51), mRNA
8917	21608	34751	1.51	6.0E-80	AL183301.2	NT	Homo sapiens chromosome 21 segment HS21C101
9259	21938	35113	0.83	6.0E-80	AF181495.1	NT	Homo sapiens HSPC148 mRNA, complete cds
9761	22412	35819	1.48	6.0E-80	U20211.1	NT	Human cone photoreceptor cGMP-phosphodiesterase alpha' subunit gene, exon 21
10861	23641	36788	2.83	6.0E-80	11427366	NT	Homo sapiens brefeldin A-inhibited guanine nucleotide-exchange protein 1 (BIG1), mRNA
11187	23852	37138	26.56	6.0E-80	AF226730.1	NT	Homo sapiens Cyf19 mRNA, complete cds
11702	24297	37623	1.59	6.0E-80	U76560.1	NT	Human peroxisome targeting signal 2 receptor (Pex7) mRNA, complete cds
11756	24347	37677	1.5	6.0E-80	AF102285.1	NT	Homo sapiens N-acetylglucosamine-phosphate mutase mRNA, complete cds
11802	24392	37725	2.26	6.0E-80	AB018260.1	NT	Homo sapiens mRNA for KIAA0717 protein, partial cds
11802	24392	37726	2.26	6.0E-80	AB018260.1	NT	Homo sapiens mRNA for KIAA0717 protein, partial cds
11806	13649	26318	1.88	6.0E-80	AI422197.1	EST_HUMAN	t58d02.x1 NCI_CGAP_Bn23 Homo sapiens cDNA clone IMAGE:2103459 3' similar to SW:NUEM_HUMAN Q16795 NADH-UBIQUINONE OXIDOREDUCTASE 39 KD SUBUNIT PRECURSOR ;
12028	25217		2.42	6.0E-80	AF240786.1	NT	Homo sapiens glutathione S-transferase theta 2 (GSTT2) and glutathione S-transferase theta 1 (GSTT1) genes, complete cds
12219	24676		5.78	6.0E-80	AB029900.1	NT	Homo sapiens GST gene for cerebroside sulfoltransferase, exon 1, 2, 3, 4, 5
12707	25341		1.94	6.0E-80	AJ133127.1	NT	Homo sapiens mRNA for sodium-glucose cotransporter (SGLT2 gene)
12804	25051	30958	1.35	6.0E-80	AF240786.1	NT	Homo sapiens glutathione S-transferase theta 2 (GSTT2) and glutathione S-transferase theta 1 (GSTT1) genes, complete cds
574	13354	25983	0.74	5.0E-80	4506228	NT	Homo sapiens proteasome (prosome, macropain) 26S subunit, non-ATPase, 3 (PSMD3) mRNA
815	13586	26253	1.97	5.0E-80	AF108830.1	NT	Homo sapiens serine-threonine protein kinase (MNBH) mRNA, complete cds
815	13586	26254	1.97	5.0E-80	AF108830.1	NT	Homo sapiens serine-threonine protein kinase (MNBH) mRNA, complete cds
1166	13920		2.39	5.0E-80	X81647.1	NT	H. sapiens nox1 gene (exon 12)
1439	14186		2.26	5.0E-80	AL163283.2	NT	Homo sapiens chromosome 21 segment HS21C083
2361	15083	27821	1.99	5.0E-80	U89356.1	NT	Human K3mbt protein homolog mRNA, complete cds
2431	15152	27886	1.65	5.0E-80	AB037855.1	NT	Homo sapiens mRNA for KIAA1434 protein, partial cds

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Single Exon Probes Expressed in Brain

Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
2797	15502	28242	1.67	5.0E-80	4504292	NT	Homo sapiens H3 histone family, member J (H3FJ) mRNA
4018	16764	28393	1.37	5.0E-80	AB019038.1	NT	Homo sapiens HMT-1 mRNA for beta-1,4 mannosyltransferase, complete cds
4018	16764	28394	1.37	5.0E-80	AB019038.1	NT	Homo sapiens HMT-1 mRNA for beta-1,4 mannosyltransferase, complete cds
4900	17827	30244	1.28	5.0E-80	AL163288.2	NT	Homo sapiens chromosome 21 segment HS21C088
8255	20949	34086	1.04	5.0E-80		NT	Mus musculus keratin complex 2, gene 8g (Krt2-8g), mRNA
9157	21888	35056	8.77	4.0E-80	F25915.1	EST_HUMAN	HSPD13155 HM3 Homo sapiens cDNA clone s4000045F03
211	13023		8.96	3.0E-80	AL163210.2	NT	Homo sapiens chromosome 21 segment HS21C010
4661	17395	30030	1.7	3.0E-80	BF085006.1	EST_HUMAN	PMO-GN0018-040900-002-E03 GN0018 Homo sapiens cDNA
4850	17580		3.77	3.0E-80	BE817485.1	EST_HUMAN	QV4-BN0263-040600-241-g10 BN0263 Homo sapiens cDNA
5730	18522	31443	2.88	3.0E-80	AI091675.1	EST_HUMAN	cc23a12.x1 Soares NSF_F8_9W_OT_PA_P_S1 Homo sapiens cDNA clone IMAGE:1567054 3' similar to
1790	14530	27238	5.08	2.0E-80	R35321.1	EST_HUMAN	TR:O35790 O35790 PIG-L;
1853	14591	27307	1.19	2.0E-80	AI444821.1	EST_HUMAN	yg6a08.r1 Soares infant brain 1N1B Homo sapiens cDNA clone IMAGE:38060 5'
2049	14782	27509	5.82	2.0E-80	AL043116.2	EST_HUMAN	RET4BT subcloned retina cDNA library Homo sapiens cDNA clone RET4B7
6708	18623	32687	0.93	2.0E-80	AA582952.1	EST_HUMAN	DKFZp434D1323_r1 434 (synonym: htes3) Homo sapiens cDNA clone DKFZp434D1323 5'
6813	19474	32496	1.71	2.0E-80	11421930	NT	nm80d01.s1 NCI_CGAP_Co9 Homo sapiens cDNA clone IMAGE:1090177 3'
7151	19838	32908	1.46	2.0E-80	T75215.1	EST_HUMAN	Homo sapiens Golgi transport complex protein (90 kDa) (GTC90), mRNA
9057	21748	34905	1.41	2.0E-80	AW964270.1	EST_HUMAN	yc68f12.r1 Soares infant brain 1N1B Homo sapiens cDNA clone IMAGE:22851 5' similar to
9668	22320	35516	1	2.0E-80	AJ007379.1	NT	SP:K1CR_XENLA P08802 KERATIN, TYPE I CYTOSKELETAL ENDO B;
10780	23463	36705	4.49	2.0E-80	AA393362.1	EST_HUMAN	EST376343 MAGC resequences, MAGH Homo sapiens cDNA
331	13132		2.25	1.0E-80	AL163303.2	NT	270f12.r1 Soares testis NHT Homo sapiens cDNA clone IMAGE:727727 5' similar to TR:G181315
782	13554	28215	1.37	1.0E-80	AF231920.1	NT	G191315 ANDROGEN-DEPENDENT EXPRESSED PROTEIN.;
1947	14682		2.44	1.0E-80	AJ732656.1	EST_HUMAN	Homo sapiens chromosome 21 segment HS21C103
5060	17779	30397	0.99	1.0E-80	4557610	NT	Homo sapiens chromosome 21 unknown mRNA
5244	18050		6.43	1.0E-80	BE386615.1	EST_HUMAN	nm01f12.x5 NCI_CGAP_Co9 Homo sapiens cDNA clone IMAGE:1076495 3' similar to contains OFR:11 OFR
5881	18687	31608	6.58	1.0E-80	L10347.1	NT	repetitive element;
6406	18175	32174	1.36	1.0E-80		NT	Homo sapiens gamma-aminobutyric acid (GABA) A receptor, gamma 2 (GABRG2) mRNA
7106	18794	32859	0.95	1.0E-80	AJ224172.1	NT	601274305F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:3615433 5'
7472	20145	33237	2.53	1.0E-80	AJ948731.1	EST_HUMAN	Human pro-alpha1 type II collagen (COL2A1) gene exons 1-54, complete cds
7472	20145	33238	2.53	1.0E-80	AJ948731.1	EST_HUMAN	Homo sapiens malate dehydrogenase 2, NAD (mitochondrial) (MDH2), nuclear gene encoding mitochondrial protein, mRNA
							Homo sapiens mRNA for lipophilin B
							wq25c05.x1 NCI_CGAP_Kid11 Homo sapiens cDNA clone IMAGE:2472296 3'
							wq25c05.x1 NCI_CGAP_Kid11 Homo sapiens cDNA clone IMAGE:2472296 3'

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Single Exon Probes Expressed in Brain

Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
8130	20824	33980	2.84	1.0E-80	11421211	NT	Homo sapiens protein tyrosine phosphatase, receptor type, A (PTPRA), mRNA
8601	21293	34435	1.72	1.0E-80	11421211	NT	Homo sapiens protein tyrosine phosphatase, receptor type, A (PTPRA), mRNA
8601	21293	34436	1.72	1.0E-80	11421211	NT	Homo sapiens protein tyrosine phosphatase, receptor type, A (PTPRA), mRNA
9185	21855	35019	1.21	1.0E-80	AF245219.1	NT	Homo sapiens probable mannose binding C-type lectin DC-SIGNR mRNA, complete cds
9185	21855	35020	1.21	1.0E-80	AF245219.1	NT	Homo sapiens probable mannose binding C-type lectin DC-SIGNR mRNA, complete cds
10325	22872	36192	0.95	1.0E-80	D83479.2	NT	Homo sapiens mRNA for KIAA0145 protein, partial cds
10548	23244	36479	5.25	1.0E-80	11641278	NT	Homo sapiens similar to rat myomegalin (LOC64182), mRNA
10548	23244	36480	5.25	1.0E-80	11641278	NT	Homo sapiens similar to rat myomegalin (LOC64182), mRNA
12289	24719	31051	1.57	1.0E-80	11417801	NT	Homo sapiens meningioma (disrupted in balanced translocation) 1 (MN1), mRNA
12498	24853	31034	3.08	1.0E-80	AB020640.1	NT	Homo sapiens mRNA for KIAA0833 protein, partial cds
10583	23278	36515	1.46	8.0E-81	A1251752.1	EST_HUMAN	q980g05.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:1854298 3'
10583	23278	36516	1.46	8.0E-81	A1251752.1	EST_HUMAN	q980g05.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:1854298 3'
11102	23772	37046	8.46	8.0E-81	BE394525.1	EST_HUMAN	601310531F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3632070 5'
7152	19839	32909	3.58	7.0E-81	A1822115.1	EST_HUMAN	z991c08.x5 Soares_fetal_lung_NbHL19W Homo sapiens cDNA clone IMAGE:299818 3'
4354	17092	29726	5.26	6.0E-81	BE256826.1	EST_HUMAN	601111970F1 NIH_MGC_16 Homo sapiens cDNA clone IMAGE:3352840 5'
4354	17092	29727	5.26	6.0E-81	BE256826.1	EST_HUMAN	601111970F1 NIH_MGC_16 Homo sapiens cDNA clone IMAGE:3352840 5'
5201	18009	30630	2.1	6.0E-81	4501848	NT	Homo sapiens ATP-binding cassette, sub-family A (ABC1), member 3 (ABCA3), mRNA
5201	18009	30631	2.1	6.0E-81	4501848	NT	Homo sapiens ATP-binding cassette, sub-family A (ABC1), member 3 (ABCA3), mRNA
7489	20161	33253	0.97	6.0E-81	AF038880.1	NT	Homo sapiens chromosome 1p33-p34 beta-1, 4-galactosyltransferase mRNA, complete cds
9136	21824	34989	1.36	6.0E-81	AA360017.1	EST_HUMAN	EST69129 Fetal lung II Homo sapiens cDNA 5' and
11800	24390	37723	1.81	6.0E-81	BE399092.1	EST_HUMAN	601312522F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3659284 5'
12430	24803	31041	2.29	6.0E-81	BF679022.1	EST_HUMAN	602153668F1 NIH_MGC_83 Homo sapiens cDNA clone IMAGE:4294601 5'
12430	24803	31042	2.29	6.0E-81	BF679022.1	EST_HUMAN	602153666F1 NIH_MGC_83 Homo sapiens cDNA clone IMAGE:4294601 5'
2214	14942	27682	2.8	5.0E-81	BE268042.1	EST_HUMAN	601125505F1 NIH_MGC_8 Homo sapiens cDNA clone IMAGE:3345480 5'
8311	21005	34143	1.83	5.0E-81	AB007923.1	NT	Homo sapiens mRNA for KIAA0454 protein, partial cds
8311	21005	34144	1.83	5.0E-81	AB007923.1	NT	Homo sapiens mRNA for KIAA0454 protein, partial cds
9548	22201	35383	0.77	5.0E-81	M60316.1	NT	Human transforming growth factor-beta (tgf-beta) mRNA, complete cds
9548	22201	35384	0.77	5.0E-81	M60316.1	NT	Human transforming growth factor-beta (tgf-beta) mRNA, complete cds
11577	24176	37491	2.23	5.0E-81	9506834	NT	Homo sapiens hypothetical protein (FLJ11045), mRNA
11839	24423	37764	1.3	5.0E-81	11526341	NT	Homo sapiens armadillo repeat gene deletes in velocardiofacial syndrome (ARVCF), mRNA
686	13461	26109	2.03	4.0E-81	A1621435.1	EST_HUMAN	th60e12.x1 NCI_CGAP_Ov23 Homo sapiens cDNA clone IMAGE:2122702 3' similar to TR:Q85560 Q85560
1815	14555	27270	1.31	4.0E-81	AW779612.1	EST_HUMAN	hn98d02.x1 NCI_CGAP_Cot14 Homo sapiens cDNA clone IMAGE:3035907 3' similar to SW:COPIG_BOVIN P53820 COATOMER GAMMA SUBUNIT;

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Table 4
Single Exon Probes Expressed in Brain

Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
3168	15931	28580	3.58	4.0E-81	AB037766.1	NT	Homo sapiens mRNA for KIAA1345 protein, partial cds
3619	16372	29013	0.98	4.0E-81	AW004608.1	EST_HUMAN	ws90h03.x1 NCI_CGAP_Co3 Homo sapiens cDNA clone IMAGE:2505269 3' similar to TR:O43815 O43815
4139	16881	29509	2.26	4.0E-81	AF263306.1	NT	STRIATIN ;
4139	16881	29510	2.26	4.0E-81	AF263306.1	NT	Homo sapiens rab3 interacting protein variant 2 mRNA, partial cds
4360	17098	29733	1.33	4.0E-81	8923209	NT	Homo sapiens rab3 interacting protein variant 2 mRNA, partial cds
							Homo sapiens hypothetical protein FLJ20220 (FLJ20220), mRNA
7177	19863	32934	1.11	4.0E-81	4757893	NT	Homo sapiens calcium channel, voltage-dependent L type, alpha 2/delta subunit (CACNA2), mRNA
7299	19882	33058	0.57	4.0E-81	11420544	NT	Homo sapiens ets variant gene 1 (ETV1), mRNA
8185	20878	34016	3.59	4.0E-81	X06989.1	NT	Human mRNA for amyloid A4(761) protein
8443	21135	34271	3.43	4.0E-81	U20197.1	NT	Human cone photoreceptor cGMP-phosphodiesterase alpha' subunit gene, exons 2 and 3
8443	21135	34272	3.43	4.0E-81	U20197.1	NT	Human cone photoreceptor cGMP-phosphodiesterase alpha' subunit gene, exons 2 and 3
9128	21814	34980	6.1	4.0E-81	AB018001.1	NT	Homo sapiens mRNA for Death-associated protein kinase 2, complete cds
10001	22649	35861	1.53	4.0E-81	11425281	NT	Homo sapiens ligase 1, DNA, ATP-dependent (LIG1), mRNA
10070	22718	35935	0.71	4.0E-81	11439065	NT	Homo sapiens acyl-Coenzyme A dehydrogenase family, member 8 (ACAD8), mRNA
10070	22718	35936	0.71	4.0E-81	11439065	NT	Homo sapiens acyl-Coenzyme A dehydrogenase family, member 8 (ACAD8), mRNA
11140	23807	37086	3.2	4.0E-81	4759085	NT	Homo sapiens vesicle trafficking protein sec22b (SEC22B), mRNA
11140	23807	37087	3.2	4.0E-81	4759085	NT	Homo sapiens vesicle trafficking protein sec22b (SEC22B), mRNA
11928	25280	30731	3.63	4.0E-81	11417862	NT	Homo sapiens calcineurin binding protein 1 (KIAA0330), mRNA
11928	25280	30732	3.63	4.0E-81	11417862	NT	Homo sapiens calcineurin binding protein 1 (KIAA0330), mRNA
12463	24831	31030	1.53	4.0E-81	11417871	NT	Homo sapiens beta-ureidopropionase (LOC51733), mRNA
12463	24831	31031	1.53	4.0E-81	11417871	NT	Homo sapiens beta-ureidopropionase (LOC51733), mRNA
12597	24911	31004	4.82	4.0E-81	11417974	NT	Homo sapiens transcobalamin II, macrocytic anemia (TCN2), mRNA
1244	13993	26658	12.36	3.0E-81	Y18000.1	NT	Homo sapiens NF2 gene
1244	13993	26659	12.36	3.0E-81	Y18000.1	NT	Homo sapiens NF2 gene
2371	15093	27832	1.23	3.0E-81	AF077188.1	NT	Homo sapiens cullin 4A (CUL4A), complete cds
2989	15755	28400	5.83	3.0E-81	4506280	NT	Homo sapiens pleiotrophin (heparin binding growth factor 8, neurite growth-promoting factor 1) (PTN), mRNA
2989	15755	28401	5.83	3.0E-81	4506280	NT	Homo sapiens pleiotrophin (heparin binding growth factor 8, neurite growth-promoting factor 1) (PTN), mRNA
2837	15605	28254	2.97	2.0E-81	BE784636.1	EST_HUMAN	601474072F1 NIH_MGC_68 Homo sapiens cDNA clone IMAGE:3877121 5'
2837	15605	28255	2.97	2.0E-81	BE784636.1	EST_HUMAN	601474072F1 NIH_MGC_68 Homo sapiens cDNA clone IMAGE:3877121 5'
3755	16507	29144	0.71	2.0E-81	AW611542.1	EST_HUMAN	hg55c01.x1 NCI_CGAP_Ki671 Homo sapiens cDNA clone IMAGE:2952384 3'
7857	20552	33678	0.6	2.0E-81	8923839	NT	Homo sapiens hypothetical protein (LOC55588), mRNA

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
1402	14149	26829	1.13	1.0E-81	W26539.1	EST_HUMAN	3373 Human retina cDNA randomly primed sublibrary Homo sapiens cDNA
3644	16397	29037	1.07	1.0E-81	AV1960668.1	EST_HUMAN	EST1372729 IMAGE resequencing, MAGF Homo sapiens cDNA
4479	17214	29839	3.56	1.0E-81	AA040370.1	EST_HUMAN	2k45h09.r1 Soares_pregnant_uterus_NbHPU Homo sapiens cDNA clone IMAGE:485825 5' similar to
4600	17335	29864	6.99	1.0E-81	BE047896.1	EST_HUMAN	PIR:S52437 S52437 CDP-diacylglycerol synthase - fruit fly;
5157	17890	37795	4.69	1.0E-81	U87928.1	NT	tz45c04.y1 NCI_CGAP_Brt82 Homo sapiens cDNA clone IMAGE:2291526 5'
5269	18075	30704	4.1	1.0E-81	11432966	NT	Human acortilate hydratase (ACO2) gene, exon 3
5269	18075	30705	4.1	1.0E-81	11432966	NT	Homo sapiens polymerase (DNA directed), gamma (POLG), mRNA
5415	18214	30922	0.85	1.0E-81	AA255569.1	EST_HUMAN	2r85d06.r1 Soares_NbHMPu_S1 Homo sapiens cDNA clone IMAGE:682475 5' similar to SW:PRI2_HUMAN
5568	18365	31273	3.47	1.0E-81	U52351.1	NT	P49643 DNA PRIMASE 58 KD SUBUNIT
5568	18365	31274	3.47	1.0E-81	U52351.1	NT	Homo sapiens arm-repeat protein NPRAP/neurojuncin (CTNND2) mRNA, partial cds
6054	18834	31786	1.81	1.0E-81	BF674641.1	EST_HUMAN	Homo sapiens arm-repeat protein NPRAP/neurojuncin (CTNND2) mRNA, partial cds
6453	19221	32218	0.59	1.0E-81	11420965	NT	602137864F1 NIH_MGC_83 Homo sapiens cDNA clone IMAGE:4274535 5'
6453	19221	32219	0.59	1.0E-81	11420965	NT	Homo sapiens phosphodiesterase 1C, calmodulin-dependent (70kD) (PDE1C), mRNA
6639	19401	32416	0.87	1.0E-81	AJ133269.1	NT	Homo sapiens cavedin-1/2 locus, Contig1, D7S522, genes CAV2 (exons 1, 2a, and 2b), CAV1 (exons 1 and 2)
7669	20333	33444	8.45	1.0E-81	11432966	NT	Homo sapiens polymerase (DNA directed), gamma (POLG), mRNA
9676	22328	35523	5.09	1.0E-81	BE668278.1	EST_HUMAN	601645051F1 NIH_MGC_56 Homo sapiens cDNA clone IMAGE:3930228 5'
9676	22328	35524	5.09	1.0E-81	BE668278.1	EST_HUMAN	601645051F1 NIH_MGC_56 Homo sapiens cDNA clone IMAGE:3930228 5'
9869	22519	35715	5.06	1.0E-81	BE664367.1	EST_HUMAN	601343180F1 NIH_MGC_53 Homo sapiens cDNA clone IMAGE:3685483 5'
10003	22651	35863	1.59	1.0E-81	AA630784.1	EST_HUMAN	ac14d06.s1 Stratagene HeLa cell s3 937216 Homo sapiens cDNA clone IMAGE:856427 3' similar to SW:YB36_YEAST P38126 HYPOTHETICAL 60.5 KD PROTEIN IN RPS101-RPS13 INTERGENIC REGION
10005	22653	35865	3.27	1.0E-81	BE744545.1	EST_HUMAN	601577339F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3838280 5'
10005	22653	35866	3.27	1.0E-81	BE744545.1	EST_HUMAN	601577339F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3838280 5'
10405	23051	36269	1.59	1.0E-81	AW897550.1	EST_HUMAN	CM3-NN0059-140400-147-812 NN0059 Homo sapiens cDNA
10860	23540	36787	2.9	1.0E-81	8923698	NT	Homo sapiens golgin-like protein (GLP), mRNA
11028	23700	36966	1.97	1.0E-81	AW844986.1	EST_HUMAN	MRO-CT0006-250599-019 CT0006 Homo sapiens cDNA
11240	23700	36967	1.97	1.0E-81	AW844986.1	EST_HUMAN	MRO-CT0006-250599-019 CT0006 Homo sapiens cDNA
11240	16397	29037	1.72	1.0E-81	AW960658.1	EST_HUMAN	EST1372729 IMAGE resequencing, MAGF Homo sapiens cDNA
11507	24108	37421	1.99	1.0E-81	BF204253.1	EST_HUMAN	601867714F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:4110459 5'
12132	24922	31093	4.13	1.0E-81	11418138	NT	Homo sapiens phorbol (similar to apolipoprotein B mRNA editing protein) (DJ742C19.2), mRNA
12	12839	25452	3.6	8.0E-82	AF161406.1	NT	Homo sapiens HSPC288 mRNA, partial cds

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Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
104	12839	25452	2.45	8.0E-82	AF161406.1	NT	Homo sapiens HSPC288 mRNA, partial cds
257	13065	25704	1.1	8.0E-82	U08988.1	NT	Human CRFB4 gene, partial cds
795	13567	26227	2.83	8.0E-82	U08988.1	NT	Human CRFB4 gene, partial cds
867	13636	26306	0.84	8.0E-82	U08988.1	NT	Human CRFB4 gene, partial cds
1474	14221	26907	1.42	8.0E-82	AB037748.1	NT	Homo sapiens mRNA for KIAA1327 protein, partial cds
1654	14400	27089	1.43	8.0E-82	6715601	NT	Homo sapiens glutathione peroxidase 5 (epididymal androgen-related protein) (GPX5), transcript variant 2, mRNA
4219	16960	29585	0.9	8.0E-82	8923432	NT	Homo sapiens hypothetical protein FLJ20461 (FLJ20461), mRNA
1433	14180		1.7	7.0E-82	BF035327.1	EST_HUMAN	601458531F1 NIH_MGC_66 Homo sapiens cDNA clone IMAGE:3862086 5'
2789	15474	28216	1.2	7.0E-82	AU144050.1	EST_HUMAN	AU144050 HEMBA1 Homo sapiens cDNA clone HEMBA1000752 3'
11759	24350	37682	1.71	7.0E-82	AA663747.1	EST_HUMAN	ae68ed4.st Strategene schizo brain S11 Homo sapiens cDNA clone IMAGE:969342 3'
4104	16847	29473	0.71	5.0E-82	AA515612.1	EST_HUMAN	m69et1.st NCJ_CGAP_Co3 Homo sapiens cDNA clone IMAGE:925196 3'
1666	14412	27103	49.82	4.0E-82	AF081484.1	NT	Homo sapiens alpha-tubulin isoform 1 mRNA, complete cds
5409	18208	30915	0.8	4.0E-82	BF351691.1	EST_HUMAN	QV2-HT0540-120900-362-f08 HT0540 Homo sapiens cDNA
5409	18208	30918	0.8	4.0E-82	BF351691.1	EST_HUMAN	QV2-HT0540-120900-362-f08 HT0540 Homo sapiens cDNA
5671	18466	31381	0.65	4.0E-82	M28833.1	NT	Human von Willebrand factor gene, exon 9
11716	24310	37633	11.61	4.0E-82	AI937300.1	EST_HUMAN	wp75e09.x1 NCJ_CGAP_Brn25 Homo sapiens cDNA clone IMAGE:2467624 3' similar to TR:O75276
12374	24773		5.05	4.0E-82	AF029701.2	NT	O75276 PKD1;
271	13079	25721	21.65	3.0E-82	4502166	NT	Homo sapiens presenilin-1 gene, exons 1 and 2
687	13462	26110	3.11	3.0E-82	BE005705.1	EST_HUMAN	Homo sapiens amyloid beta (A4) precursor protein (protease nexin-II, Alzheimer disease) (APP), mRNA
770	13542	26203	5.7	3.0E-82	5174702	NT	RC2-BN0120-010400-013-f02 BN0120 Homo sapiens cDNA
850	13620	26290	10.65	3.0E-82	4502166	NT	Homo sapiens transforming growth factor beta-activated kinase-binding protein 1 (TAB1), mRNA
1039	13799		18.58	3.0E-82	AA725848.1	EST_HUMAN	Homo sapiens amyloid beta (A4) precursor protein (protease nexin-II, Alzheimer disease) (APP), mRNA
1333	14082	26758	1.25	3.0E-82	AW875073.1	EST_HUMAN	al23605.s1 Soares_testis_NHT Homo sapiens cDNA clone 1343648 3'
1450	14197	26881	3.44	3.0E-82	AL163285.2	NT	RC6-PT0001-190100-021-B02 PT0001 Homo sapiens cDNA
1894	14631	27341	1.91	3.0E-82	BE813232.1	EST_HUMAN	Homo sapiens chromosome 21 segment HS21C085
2000	14735	27459	1.53	3.0E-82	4501922	NT	RC1-BN0005-260700-018-g04 BN0005 Homo sapiens cDNA
3266	16028		2.52	3.0E-82	5453811	NT	Homo sapiens adenylyl cyclase activating polypeptide 1 (pituitary) receptor type 1 (ADCYAP1R1) mRNA
							Homo sapiens neurotrophic tyrosine kinase, receptor, type 2 (NTRK2) mRNA

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Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
4884	17593	30216	0.98	3.0E-82	AA135979.1	EST_HUMAN	z193b04.r1 Stratagene lung carcinoma 937218 Homo sapiens cDNA clone IMAGE:585711 5' similar to
8052	20748	33878	3.14	3.0E-82	11425208	NT	SW:PAGT_BOVIN Q07537 POLYPEPTIDE N-ACETYL GALACTOSAMINYLTRANSFERASE ;
8454	21146	34287	0.88	3.0E-82	11432889	NT	Homo sapiens ankyrin-like with transmembrane domains 1 (ANKTM1), mRNA
8454	21146	34288	0.88	3.0E-82	11432889	NT	Homo sapiens contactin 6 (CNTN6), mRNA
9724	22375	35575	3.23	3.0E-82	AB029000.1	NT	Homo sapiens contactin 6 (CNTN6), mRNA
9724	22375	35576	3.23	3.0E-82	AB029000.1	NT	Homo sapiens contactin 6 (CNTN6), mRNA
583	13363	25990	2.55	2.0E-82	AB023216.1	NT	Homo sapiens mRNA for KIAA1077 protein, partial cds
583	13363	25991	2.55	2.0E-82	AB023216.1	NT	Homo sapiens mRNA for KIAA0999 protein, partial cds
1681	14425	27121	1.21	2.0E-82	AL046390.1	EST_HUMAN	Homo sapiens mRNA for KIAA0999 protein, partial cds
3827	16578	29210	1.25	2.0E-82	D87675.1	NT	DKFZp434M117.1 434 (synonym: htes3) Homo sapiens cDNA clone DKFZp434M117 5'
4208	16949	28575	1.17	2.0E-82	4504118	NT	Homo sapiens DNA for amyloid precursor protein, complete cds
4521	17256	29890	1.01	2.0E-82	AB029019.1	NT	Homo sapiens glutamate receptor, ionotropic, kainate 1 (GRIK1) mRNA
4521	17256	29891	1.01	2.0E-82	AB029019.1	NT	Homo sapiens mRNA for KIAA1096 protein, partial cds
4816	17547	30172	2.85	2.0E-82	AF045555.1	NT	Homo sapiens mRNA for KIAA1096 protein, partial cds
5021	17742	30352	1.46	2.0E-82	4507580	NT	Homo sapiens wscr1 (WBSCR1) and wscr5 (WBSCR5) genes, complete cds, alternatively spliced and replication factor C subunit 2 (RFC2) gene, complete cds
5021	17742	30353	1.46	2.0E-82	4507580	NT	Homo sapiens tumor necrosis factor receptor superfamily, member 5 (TNFRSF5) mRNA
5384	18184	30874	5.65	2.0E-82	AB018270.1	NT	Homo sapiens tumor necrosis factor receptor superfamily, member 5 (TNFRSF5) mRNA
6082	18861	31827	4.73	2.0E-82	AF234882.1	NT	Homo sapiens mRNA for KIAA0727 protein, partial cds
7581	28428		0.91	2.0E-82	A1476428.1	EST_HUMAN	Homo sapiens FAM4A1 splice variant a (FAM4A1) mRNA, complete cds
7705	20369	33482	0.85	2.0E-82	8823130	NT	h21g05.x1 Scores_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2157272 3'
8204	20898	34035	2.16	2.0E-82	11321570	NT	Homo sapiens hypothetical protein FLJ20128 (FLJ20128), mRNA
8568	21260	34397	0.45	2.0E-82	7657340	NT	Homo sapiens silt (Drosophila) homolog 3 (SLIT3), mRNA
8568	21260	34398	0.45	2.0E-82	7657340	NT	Homo sapiens microorchidia (mouse) homolog (MORC), mRNA
10009	22657	35870	1.84	2.0E-82	Y08032.1	NT	Homo sapiens microorchidia (mouse) homolog (MORC), mRNA
10009	22657	35871	1.84	2.0E-82	Y08032.1	NT	Human endogenous retrovirus-K, LTR U5 and gag gene
11237	23900	37187	1.27	2.0E-82	11417191	NT	Human endogenous retrovirus-K, LTR U5 and gag gene
11279	23940	37233	4.45	2.0E-82	U80736.1	NT	Homo sapiens leucylcystinyl aminopeptidase (LNPEP), mRNA
11279	23940	37234	4.45	2.0E-82	U80736.1	NT	Homo sapiens leucylcystinyl aminopeptidase (LNPEP), mRNA
11750	24341	37670	1.91	2.0E-82	5031660	NT	Homo sapiens CAGF9 mRNA, partial cds
11957	24508		1.58	2.0E-82	N94950.1	EST_HUMAN	Homo sapiens CAGF9 mRNA, partial cds
							Homo sapiens EGF-like repeats and discoidin-like domains 3 (EDIL3), mRNA
							zb31d10.s1 Scores_parathyroid_tumor_NHHPA Homo sapiens cDNA clone IMAGE:305203 3'

Table 4
Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
12485	24844		3.47	2.0E-82	AA011278.1	EST_HUMAN	z01g09.r1 Soares_fetal_liver_spleen_1NFLS_S1 Homo sapiens cDNA clone IMAGE:429568 5'
12775	25029		1.95	2.0E-82	11418097	NT	Homo sapiens SRY (sex determining region Y)-box 10 (SOX10), mRNA
578	13358	25985	1.14	1.0E-82	11545921	NT	Homo sapiens melanoma differentiation associated protein-5 (MDA5), mRNA
1186	13938		0.77	1.0E-82	BE885106.1	EST_HUMAN	601510859F1 NIH_MGC_71 Homo sapiens cDNA clone IMAGE:3912207 5'
1263	14012	26879	3.1	1.0E-82	BE064386.1	EST_HUMAN	RC4-BT0310-110300-015-110 BT0310 Homo sapiens cDNA
1264	14013	26880	1.26	1.0E-82	AB011110.2	NT	Homo sapiens mRNA for KIAA0538 protein, partial cds
8841	21533	34678	1.13	1.0E-82	AB037838.1	NT	Homo sapiens mRNA for KIAA1417 protein, partial cds
9553	22206	35390	0.59	1.0E-82	AB014562.1	NT	Homo sapiens mRNA for KIAA0662 protein, partial cds
10145	22793		1.17	1.0E-82	BF515938.1	EST_HUMAN	U1-HBW1-aca-f-03-0-UJ.st NCL_CGAP_Sub7 Homo sapiens cDNA clone IMAGE:3084053 3'
10849	23337	36576	2.34	1.0E-82	AL163209.2	NT	Homo sapiens chromosome 21 segment HS21C009
8615	21307	34449	4.51	9.0E-83	BF672220.1	EST_HUMAN	602150403F1 NIH_MGC_81 Homo sapiens cDNA clone IMAGE:4291561 5'
10174	22822	36039	0.53	9.0E-83	BE253347.1	EST_HUMAN	601171760F1 NIH_MGC_16 Homo sapiens cDNA clone IMAGE:3357734 5'
1392	14139	28816	3.33	8.0E-83	BE383973.1	EST_HUMAN	601273346F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:3614362 5'
1676	15523	27115	5.63	8.0E-83	N68951.1	EST_HUMAN	2a48f12.s1 Soares fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:295623 3'
1335	14084	26759	0.97	7.0E-83	AW385529.1	EST_HUMAN	QV4-L10016-271299-088-h11 LT0016 Homo sapiens cDNA
2888	15635		1.88	7.0E-83	AA584655.1	EST_HUMAN	nc12h01.st NCL_CGAP_Phe1 Homo sapiens cDNA clone IMAGE:1100497 3' similar to contains Alu repetitive element.
4765	17497		6.68	7.0E-83	BF221813.1	EST_HUMAN	7p37a07.x1 NCL_CGAP_Pr28 Homo sapiens cDNA clone IMAGE:3647693 3' similar to Tr:Q9Y316 Q9Y316
5960	18742	31702	0.58	7.0E-83	11426657	NT	Homo sapiens KIAA0100 gene product (KIAA0100), mRNA
11717	24311	37634	1.4	7.0E-83	5729753	NT	Homo sapiens transcription factor CAT150 (CA150) mRNA
11717	24311	37635	1.4	7.0E-83	5729753	NT	Homo sapiens transcription factor CAT150 (CA150) mRNA
394	13179	25826	1.98	6.0E-83	M33320.1	NT	Human platelet Glycoprotein IIb (GPIIb) gene, exons 2-29
1779	14520	27224	1.5	6.0E-83	AW573088.1	EST_HUMAN	h31h03.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2933525 3' similar to
3017	15783	28432	0.71	6.0E-83	AW816405.1	EST_HUMAN	SW:YBEB_HAEIN P44471 HYPOTHETICAL PROTEIN H10034.1
3046	15812		1.08	6.0E-83	AF231918.1	NT	QV4-ST0234-181199-037-405 ST0234 Homo sapiens cDNA
5211	18019	30641	2.02	6.0E-83	4507866	NT	Homo sapiens chromosome 21 unknown mRNA
5933	18716	31674	1.52	6.0E-83	AJ010770.1	NT	Homo sapiens VAMP (vesicle-associated membrane protein)-associated protein A (33kD) (VAPA) mRNA, and translated products
7401	20079	33160	2.27	6.0E-83	11422024	NT	Homo sapiens hyperin gene, exons 1-50
9575	22228	35413	2.85	6.0E-83	4505314	NT	Homo sapiens met proto-oncogene (hepatocyte growth factor receptor) (MET), mRNA
9669	22321	35517	2.34	6.0E-83	11430647	NT	Homo sapiens myomesin (M-protein) 2 (165kD) (MYOM2), mRNA
9669	22321	35518	2.34	6.0E-83	11430647	NT	Homo sapiens pre-mRNA splicing factor similar to S. cerevisiae Prp18 (PRP18), mRNA
9669	22321	35518	2.34	6.0E-83	11430647	NT	Homo sapiens pre-mRNA splicing factor similar to S. cerevisiae Prp18 (PRP18), mRNA

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
11517	24117		2.53	6.0E-83	AA486105.1	EST_HUMAN	ab14e10.s1 Stratagene lung (#937210) Homo sapiens cDNA clone IMAGE:840810 3' similar to contains THR.12 THR repetitive element ;
11908	24472		4.27	6.0E-83	AF240786.1	NT	Homo sapiens glutathione S-transferase theta 2 (GSTT2) and glutathione S-transferase theta 1 (GSTT1) genes, complete cds
925	13692		2.03	5.0E-83	U17883.1	NT	Human succinate dehydrogenase iron-protein subunit (sdhB) gene, exon 5
2043	15526		1.55	5.0E-83	AF006305.1	NT	Homo sapiens 26S proteasome regulatory subunit (SUG2) mRNA, complete cds
3629	16382	28022	1.18	5.0E-83	AL133207.2	NT	Novel human gene mapping to chromosome X
3886	16636	29275	0.77	5.0E-83	4885190	NT	Homo sapiens deoxyribonuclease I (DNASE1), mRNA
5020	17741	30350	11.53	5.0E-83	4557013	NT	Homo sapiens catalase (CAT) mRNA
5020	17741	30351	11.53	5.0E-83	4557013	NT	Homo sapiens catalase (CAT) mRNA
5093	17812	30428	1.07	5.0E-83	5031660	NT	Homo sapiens EGF-like repeats and discoidin-like domains 3 (EDIL3), mRNA
5093	17812	30429	1.07	5.0E-83	5031660	NT	Homo sapiens EGF-like repeats and discoidin-like domains 3 (EDIL3), mRNA
625	13404	26039	1.72	4.0E-83	AF224669.1	NT	Homo sapiens mannosidase, beta A, lysosomal (MANBA) gene, and ubiquitin-conjugating enzyme E2D 3 (UBE2D3) genes, complete cds
977	13742		4.9	3.0E-83	AA368311.1	EST_HUMAN	EST79542 Placenta Homo sapiens cDNA similar to similar to endogenous retrovirus ERV9 repetitive element ;
2780	15485		1.33	3.0E-83	AA632654.1	EST_HUMAN	np87c07.s1 NCI_CGAP_Thy1 Homo sapiens cDNA clone IMAGE:1755682 3'
6483	19250		0.62	3.0E-83	AI217223.1	EST_HUMAN	qf73e06.x1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:1755682 3'
1792	14532	27240	1.86	2.0E-83	AA993492.1	EST_HUMAN	qf64g05.s1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:1621592 3' similar to TR:Q92614
1792	14532	27241	1.86	2.0E-83	AA993492.1	EST_HUMAN	Q92614 MYELOBLAST KIAA0216 ;
1918	14855	27365	4.07	2.0E-83	N66951.1	EST_HUMAN	qf64g05.s1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:1621592 3' similar to TR:Q92614
2856	15624	28268	1.1	2.0E-83	BE828694.1	EST_HUMAN	2a48f12.s1 Soares_fetal_liver_spleen_TNFSL Homo sapiens cDNA clone IMAGE:296823 3'
3263	16025		1.89	2.0E-83	11430834	NT	RC6-ET0048-280600-013-H12 ET0046 Homo sapiens cDNA
3756	16508		0.7	2.0E-83	AL163202.2	NT	Homo sapiens sal (Drosophila)-like 1 (SALL1), mRNA
4302	17041	29668	4.11	2.0E-83	AF202879.1	NT	Homo sapiens chromosome 21 segment HS21C002
4604	17339	29888	6.14	2.0E-83	7706398	NT	Homo sapiens hematopoietic progenitor cell antigen CD34 precursor (CD34) mRNA, partial cds
4604	17339	29869	6.14	2.0E-83	7706398	NT	Homo sapiens ankyrin repeat-containing protein ASB-2 (LOC51676), mRNA
5189	17997	30620	0.9	2.0E-83	U03679.1	NT	Homo sapiens ankyrin repeat-containing protein ASB-2 (LOC51676), mRNA
5755	18547	31468	0.85	2.0E-83	11428081	NT	Human carcinoembryonic antigen gene family member 18 (CGM18) gene, exons A1 and B1
5875	18662	31603	1.31	2.0E-83	BE885401.1	EST_HUMAN	Homo sapiens membrane protein CH1 (CH1), mRNA
6647	19409	32423	1.12	2.0E-83	AF129533.1	NT	6071507482F1 NIH_MGC_71 Homo sapiens cDNA clone IMAGE:3009068 5'
7335	20017	33095	6.36	2.0E-83	AF129533.1	NT	Homo sapiens F-box protein Fbl3b (FBL3B) mRNA, partial cds

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
7704	20367	33480	0.84	2.0E-83	BF105097.1	EST_HUMAN	601822090F1 NIH_MGC_75 Homo sapiens cDNA clone IMAGE:4042318 5'
7742	20438	33560	0.78	2.0E-83	AB001025.1	NT	Homo sapiens mRNA for brain ryanodine receptor, complete cds
7742	20438	33561	0.78	2.0E-83	AB001025.1	NT	Homo sapiens mRNA for brain ryanodine receptor, complete cds
7886	20581	33710	1.79	2.0E-83	U68707.1	NT	Rattus norvegicus densin-180 mRNA, complete cds
8213	20907	34042	2.05	2.0E-83	AF011920.1	NT	Homo sapiens protein kinase CK2 catalytic subunit alpha gene, exon 1
8213	20907	34043	2.05	2.0E-83	AF011920.1	NT	Homo sapiens protein kinase CK2 catalytic subunit alpha gene, exon 1
9494	22147	35328	0.48	2.0E-83	5453881	NT	Homo sapiens phosphotyrosine kinase, gamma 1 (muscle) (PHKG1) mRNA
9494	22147	35329	0.48	2.0E-83	5453881	NT	Homo sapiens phosphotyrosine kinase, gamma 1 (muscle) (PHKG1) mRNA
9934	22582	35780	4.01	2.0E-83	M22094.1	NT	Human neural cell adhesion molecule (N-CAM) secreted isoform mRNA, 3' end
9934	22582	35781	4.01	2.0E-83	M22094.1	NT	Human neural cell adhesion molecule (N-CAM) secreted isoform mRNA, 3' end
10016	22664	35881	1.39	2.0E-83	AU117659	EST_HUMAN	Human neural cell adhesion molecule (N-CAM) secreted isoform mRNA, 3' end
10089	22737	35952	0.77	2.0E-83	AW505600.1	EST_HUMAN	AU117659 HEMBA1 Homo sapiens cDNA clone HEMBA1001910 5'
10753	23438	36682	6.64	2.0E-83	11438448	NT	Homo sapiens KIAA0985 protein (KIAA0985), mRNA
10845	23527	36770	2.19	2.0E-83	AL134452.1	EST_HUMAN	DKFZp547J135.1 547 (synonym: hibr1) Homo sapiens cDNA clone DKFZp547J135 5'
10845	23527	36771	2.19	2.0E-83	AL134452.1	EST_HUMAN	DKFZp547J135.1 547 (synonym: hibr1) Homo sapiens cDNA clone DKFZp547J135 5'
12522	24869		3.85	2.0E-83	AB011399.1	NT	Homo sapiens gene for AF-6, complete cds
1390	14137	28813	2.18	1.0E-83	4504326	NT	Homo sapiens hydroxyacyl-Coenzyme A dehydrogenase/3-ketoacyl-Coenzyme A thiolase/Coenzyme A hydratase (trifunctional protein), beta subunit (HADHB) mRNA
1390	14137	28814	2.18	1.0E-83	4504326	NT	Homo sapiens hydroxyacyl-Coenzyme A dehydrogenase/3-ketoacyl-Coenzyme A thiolase/Coenzyme A hydratase (trifunctional protein), beta subunit (HADHB) mRNA
1442	14189	28873	0.98	1.0E-83	AF105067.1	NT	Homo sapiens lipopolysaccharide-binding protein (LBP) mRNA, complete cds
1442	14189	28874	0.98	1.0E-83	AF105067.1	NT	Homo sapiens lipopolysaccharide-binding protein (LBP) mRNA, complete cds
3179	15942	28583	1.18	1.0E-83	7662349	NT	Homo sapiens cell recognition molecule Caspr2 (KIAA0868), mRNA
3850	16800	29237	3.93	1.0E-83	AF053768.1	NT	Rattus norvegicus brain specific cortactin-binding protein CBP90 mRNA, partial cds
4220	16961	29586	1.99	1.0E-83	Z25822.1	NT	H. sapiens gene for mitochondrial dodecenoyl-CoA delta-isomerase, exon 3
4831	17662	30184	3.38	1.0E-83	4502166	NT	Homo sapiens amyloid beta (A4) precursor protein (protease nexin-II, Alzheimer disease) (APP), mRNA
6998	19359	32373	1.65	1.0E-83	AI027614.1	EST_HUMAN	ov99508.x1 Soares testis_NHT Homo sapiens cDNA clone IMAGE:1645431 3' similar to gb:M64241 QM
3776	16528	29167	3.8	7.0E-84	BE901209.1	EST_HUMAN	PROTEIN (HUMAN);
1272	14021	26987	3.5	6.0E-84	BE838864.1	EST_HUMAN	601676023F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3958853 5'
1272	14021	26988	3.5	6.0E-84	BE838864.1	EST_HUMAN	RC2-FN0119-200600-011-g05 FN0119 Homo sapiens cDNA
2398	15117	27654	8.26	6.0E-84	AA778574.1	EST_HUMAN	RC2-FN0119-200600-011-g05 FN0119 Homo sapiens cDNA
5160	17892		3.33	8.0E-84	AL042863.2	EST_HUMAN	ae88a03.a1 Striatagene schizo brain S11 Homo sapiens cDNA clone IMAGE:971020 3'
							DKFZp434H0322_r1 434 (synonym: htes3) Homo sapiens cDNA clone DKFZp434H0322 5'

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
5431	18230	30843	1.87	6.0E-84	AA897339.1	EST_HUMAN	al47g03.s1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:1460500 3' similar to gb:M14338 VITAMIN K-DEPENDENT PROTEIN S PRECURSOR (HUMAN);
5574	18371	31282	1.04	6.0E-84	11428718	NT	Homo sapiens acetyl LDL receptor; SREC=scavenger receptor expressed by endothelial cells (SREC), mRNA
5574	18371	31283	1.04	6.0E-84	11428718	NT	Homo sapiens acetyl LDL receptor; SREC=scavenger receptor expressed by endothelial cells (SREC), mRNA
7591	20053	33134	2.94	6.0E-84	BE10371.1	EST_HUMAN	PM0-L T0019-190600-004-F02 L T0019 Homo sapiens cDNA
7972	20659	33367	0.97	6.0E-84	AF038391.1	NT	Homo sapiens pre-mRNA splicing factor (PRP-16) mRNA, complete cds
7972	20667	33789	2.37	6.0E-84	BE770199.1	EST_HUMAN	PM4-F T0054-160600-004-e10 FT0054 Homo sapiens cDNA
897	13472	26121	0.71	5.0E-84	AA382811.1	EST_HUMAN	EST96094 Testis I Homo sapiens cDNA 5' end
3013	15778		1.82	5.0E-84	AF109718.1	NT	Homo sapiens chromosome 3 subtelomeric region
6015	18796	31758	0.59	5.0E-84	AA167678.1	EST_HUMAN	zq39s07.r1 Striatogene NNT neuron (#637233) Homo sapiens cDNA clone IMAGE:632100 5' similar to TR:G483915 G483915 RETROTRANSCRIPTABLE L1 ELEMENT LRE2 FROM CHROMOSOME 1Q.;
11633	24133	37438	3.17	5.0E-84	11428740	NT	Homo sapiens regulatory factor X ₃ 3 (influences HLA class II expression) (RFX3), mRNA
11652	24249	37570	1.77	5.0E-84	AB032957.1	NT	Homo sapiens mRNA for KIAA1131 protein, partial cds
11652	24249	37571	1.77	5.0E-84	AB032957.1	NT	Homo sapiens mRNA for KIAA1131 protein, partial cds
11813	24401	37738	1.44	5.0E-84	11433550	NT	Homo sapiens tropomodulin 2 (neuronal) (TMOD2), mRNA
1389	14136	26812	2.19	4.0E-84	AI685321.1	EST_HUMAN	via76cd4.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2302086 3' similar to SW:NRDC_HUMAN O43847 NARDILYSIN PRECURSOR;
4897	17624	30242	1.79	4.0E-84	AF09601.2	NT	Homo sapiens myosin light chain kinase isoform 2 (MLCK) mRNA, complete cds
5475	18274	31168	1.36	4.0E-84	11386168	NT	Homo sapiens protein tyrosine phosphatase, receptor type, G (PTPRG), mRNA
5475	18274	31169	1.36	4.0E-84	11386168	NT	Homo sapiens protein tyrosine phosphatase, receptor type, G (PTPRG), mRNA
6175	18952	31925	1.88	4.0E-84	AF059650.1	NT	Homo sapiens histone deacetylase 3 (HDAC3) gene, complete cds
7547	20217	33319	14.38	4.0E-84	11421328	NT	Homo sapiens KIAA0783 gene product (KIAA0783), mRNA
8809	21501	34847	1.21	4.0E-84	4557526	NT	Homo sapiens discs, large (Drosophila) homolog 2 (chapsyn-110) (DLG2) mRNA
8809	21501	34848	1.21	4.0E-84	4557526	NT	Homo sapiens discs, large (Drosophila) homolog 2 (chapsyn-110) (DLG2) mRNA
10835	23517	38759	4.51	4.0E-84	AB032956.1	NT	Homo sapiens mRNA for KIAA1130 protein, partial cds
308	13112	25752	1.24	3.0E-84	AF026200.1	NT	Homo sapiens Bach1 protein homolog mRNA, partial cds
1953	14688	27401	1.15	3.0E-84	5453855	NT	Homo sapiens pericentriolar material 1 (PCM1) mRNA
2001	14736	27460	2.41	3.0E-84	AL096880.1	NT	Novel human mRNA containing Zinc finger C2H2 type domains
3578	18333	28977	1.07	3.0E-84	AB026898.1	NT	Homo sapiens DNA, DLEC1 to ORCTL4 gene region, section 1/2 (DLEC1, ORCTL3, ORCTL4 genes, complete cds)
3731	19483	28121	5.2	3.0E-84	AF014459.1	NT	Homo sapiens X-linked juvenile retinoschisis precursor protein (XLR51) mRNA, complete cds

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
10790	23473		3.55	3.0E-84	A198380.1	EST_HUMAN	wu20d05.x1 Soares Dieckgraefe_colon_NHCD Homo sapiens cDNA clone IMAGE:2520585 3' similar to
2098	14829	27563	6.94	2.0E-84	BE695397.1	EST_HUMAN	gb.L05093 60S RIBOSOMAL PROTEIN L18A (HUMAN);
2098	14829	27564	6.94	2.0E-84	BE695397.1	EST_HUMAN	CM1-BT0795-190600-272-508 BT0795 Homo sapiens cDNA
2844	15710	28362	9.31	2.0E-84	AF036943.1	NT	CM1-BT0795-190600-272-508 BT0795 Homo sapiens cDNA
2962	15726	28378	0.77	2.0E-84	X8921.1	NT	Homo sapiens myelin transcription factor 1-like (MYT1-) mRNA, complete cds
5439	18238	30952	0.92	2.0E-84	BF511575.1	EST_HUMAN	H sapiens DNA for endogenous retroviral like element
5439	18238	30953	0.92	2.0E-84	BF511575.1	EST_HUMAN	U1-H-B14-ae-a-02-0-UI.s1 NCI CGAP Sub8 Homo sapiens cDNA clone IMAGE:3084963 3'
6540	19305	32310	0.75	2.0E-84	H63370.1	EST_HUMAN	U1-H-B14-ae-a-02-0-UI.s1 NCI CGAP Sub8 Homo sapiens cDNA clone IMAGE:3084963 3'
7956	20651		1.35	2.0E-84	A1298674.1	EST_HUMAN	yt66e11.s1 Soares fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:209324 3'
8284	20978	34118	0.49	2.0E-84	AL163204.2	NT	qns87c09.x1 NCI CGAP Lu5 Homo sapiens cDNA clone IMAGE:1895728 3'
8284	20978	34119	0.49	2.0E-84	AL163204.2	NT	Homo sapiens chromosome 21 segment HS21C004
9245	21924	35094	0.81	2.0E-84	AU120280.1	EST_HUMAN	Homo sapiens chromosome 21 segment HS21C004
9631	22283	35476	0.61	2.0E-84	H2284.1	EST_HUMAN	AU120280 HEMBB1 Homo sapiens cDNA clone HEMBB1000339 5'
12159	24643	31100				EST_HUMAN	ym49e11.r1 Soares infant brain 1N1B Homo sapiens cDNA clone IMAGE:51383 5' similar to SP-APOH_RAT
12159	24643	31101	3	2.0E-84	BF448000.1	EST_HUMAN	P26644 BETA-2-GLYCOPROTEIN I;
304	13108	25748	1.89	1.0E-84	AF114488.1	NT	nae30a02.x1 Lupski_sympathetic_trunk Homo sapiens cDNA clone IMAGE:4090251 3' similar to
536	13319	25953	20.64	1.0E-84		NT	nae30a02.x1 Lupski_sympathetic_trunk Homo sapiens cDNA clone IMAGE:4090251 3' similar to
703	13478		1	1.0E-84	11427631	NT	TR:QBUGS3 QBUGS3 DJ766G23.1;
1270	14019	26685	3.17	1.0E-84	AA984379.1	EST_HUMAN	nae30a02.x1 Lupski_sympathetic_trunk Homo sapiens cDNA clone IMAGE:4090251 3' similar to
2048	14781	27508	1.92	1.0E-84	BE392137.1	EST_HUMAN	TR:QBUGS3 QBUGS3 DJ766G23.1;
2220	14948	27686	1.13	1.0E-84	11427197	NT	Homo sapiens tyrosine 3-monooxygenase/tyrosinase 5-monooxygenase activation protein, zeta polypeptide (YWHAZ) mRNA
3733	18488	29123	2.46	1.0E-84	AA720851.1	EST_HUMAN	Homo sapiens complement component 5 (C5), mRNA
4383	17120	29762	5.01	1.0E-84	AJ229041.1	NT	am85b11.s1 Stralagene schizo brain S11 Homo sapiens cDNA clone IMAGE:1629885 3'
4651	17385	30017	3.53	1.0E-84	AL043314.2	EST_HUMAN	60130806F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3626267 5'
4651	17385	30018	3.53	1.0E-84	AL043314.2	EST_HUMAN	Homo sapiens pericentriolar material 1 (PCM1), mRNA
4855	17120	29752	2.67	1.0E-84	AJ229041.1	NT	nw12a06.s1 NCI CGAP_SS1 Homo sapiens cDNA clone IMAGE:1239108 3'
5153	17870	30483	1.15	1.0E-84		NT	Homo sapiens 959 kb contig between AML1 and CBR1 on chromosome 21q22; segment 1/3
5830	18619	31551	0.98	1.0E-84	11434422	NT	DKFZp434N0323_r1 434 (synonym: hies3) Homo sapiens cDNA clone DKFZp434N0323 5'
						NT	DKFZp434N0323_r1 434 (synonym: hies3) Homo sapiens cDNA clone DKFZp434N0323 5'
						NT	Homo sapiens 959 kb contig between AML1 and CBR1 on chromosome 21q22; segment 1/3
						NT	Homo sapiens catenin (cadherin-associated protein), alpha 2 (CTNNA2), mRNA
						NT	Homo sapiens speckle-type POZ protein (SPOP), mRNA

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6097	18575	31844	1.41	1.0E-84	S73482.1	NT	uterine water channel=28 kda erythrocyte integral membrane protein homolog [human, uterus, mRNA, 1340 nt]
6781	19525	32552	1.66	1.0E-84	AL049784.1	NT	Novel human gene mapping to chromosome 13
6781	19525	32553	1.66	1.0E-84	AL049784.1	NT	Novel human gene mapping to chromosome 13
7007	19699	32753	2.32	1.0E-84	AL049784.1	NT	Novel human gene mapping to chromosome 13
7369	20049	33130	1.26	1.0E-84	8393994	NT	Homo sapiens polymerase (DNA directed), alpha (POLA), mRNA
7501	20137	33229	2.42	1.0E-84	11430846	NT	Homo sapiens NGF-A binding protein 1 (ERG1 binding protein 1) (NAB1), mRNA
9435	22113		3.05	1.0E-84	5031984	NT	Homo sapiens nuclear transport factor 2 (placental protein 16) (PP16) mRNA
9670	22322	35519	0.53	1.0E-84	AF224511.1	NT	Homo sapiens Ca2+-binding protein CABP3 (CABP3) gene, exon 6 and partial cds
9690	17900	30588	3.05	1.0E-84	4507848	NT	Homo sapiens ubiquitin specific protease 13 (isopeptidase T-3) (USP13) mRNA
9690	17900	30589	3.05	1.0E-84	4507848	NT	Homo sapiens ubiquitin specific protease 13 (isopeptidase T-3) (USP13) mRNA
10496	23142	36368	1.08	1.0E-84	11437356	NT	Homo sapiens glutamate receptor, ionotropic, AMPA 4 (GRIA4), mRNA
12046	24566		2.34	1.0E-84	11417812	NT	Homo sapiens purinergic receptor P2X-like 1, orphan receptor (P2RXL-1), mRNA
12151	24638	31096	3.2	1.0E-84	11418185	NT	Homo sapiens aconitase 2, mitochondrial (ACO2), mRNA
946	13712		1.06	9.0E-85	AL163209.2	NT	Homo sapiens chromosome 21 segment HS21C009
1051	13810	26469	2.39	9.0E-85	U51432.1	NT	Homo sapiens nuclear protein Skip mRNA, complete cds
1051	13810	26470	2.39	9.0E-85	U51432.1	NT	Homo sapiens nuclear protein Skip mRNA, complete cds
1360	14108	26783	0.95	9.0E-85	4758669	NT	Homo sapiens leupaxin (LDPL), mRNA
1572	14319	27004	1.23	9.0E-85	M33282.1	NT	Human plasminogen gene, exon 7
1572	14319	27005	1.23	9.0E-85	M33282.1	NT	Human plasminogen gene, exon 7
1670	14415	27108	3.6	9.0E-85	7657020	NT	Homo sapiens DKFZp434P211 protein (DKFZP434P211), mRNA
4225	16968	29591	0.96	9.0E-85	AL163280.2	NT	Homo sapiens chromosome 21 segment HS21C080
4824	17555	30177	0.96	9.0E-85	5901979	NT	Homo sapiens heat shock transcription factor 2 binding protein (HSF2BP), mRNA
4856	17585	30209	1.12	9.0E-85	AL163268.2	NT	Homo sapiens chromosome 21 segment HS21C088
1114	13871	26530	1.45	7.0E-85	L05094.1	NT	Homo sapiens ribosomal protein L27 mRNA, complete cds
11642	24239		4.32	7.0E-85	AF113210.1	NT	Homo sapiens MSTP030 mRNA, complete cds
11362	23998	37300	3.35	6.0E-85	11438573	NT	Homo sapiens DEAD/H (Asp-Glu-Ala-Asp/His) box polypeptide 10 (RNA helicase) (DDX10), mRNA
11392	23998	37301	3.35	6.0E-85	11438573	NT	Homo sapiens DEAD/H (Asp-Glu-Ala-Asp/His) box polypeptide 10 (RNA helicase) (DDX10), mRNA
11766	24357	37690	1.29	6.0E-85	AA403053.1	EST_HUMAN	z62b01.11 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:726889 5' similar to TR:G1335769
2332	15058	27792	1.49	5.0E-85	AL163284.2	NT	G1335769 GAG-POL POLYPROTEIN.; Homo sapiens chromosome 21 segment HS21C084

Table 4
Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
4399	17136		0.8	5.0E-85	AF211189.1	NT	Homo sapiens T-type calcium channel alpha1 subunit Alpha1-e isoform (CACNA1I) mRNA, complete cds
5364	18166	30851	1.4	5.0E-85	BF035674.1	EST_HUMAN	601458646F1 NIH_MGC_66 Homo sapiens cDNA clone IMAGE:3862402 5'
5364	18166	30852	1.4	5.0E-85	BF035674.1	EST_HUMAN	601458646F1 NIH_MGC_66 Homo sapiens cDNA clone IMAGE:3862402 5'
11063	23733	37005	2	5.0E-85	AF224659.1	NT	Homo sapiens mannosidase, beta A, lysosomal (MANBA) gene, and ubiquitin-conjugating enzyme E2D 3 (UBE2D3) genes, complete cds
12743	17136		5.28	5.0E-85	AF211189.1	NT	Homo sapiens T-type calcium channel alpha1 subunit Alpha1-e isoform (CACNA1I) mRNA, complete cds
6056	18836	31797	1.51	4.0E-85	BF677910.1	EST_HUMAN	602084730F1 NIH_MGC_83 Homo sapiens cDNA clone IMAGE:4249087 5'
6056	18836	31798	1.51	4.0E-85	BF677910.1	EST_HUMAN	602084730F1 NIH_MGC_83 Homo sapiens cDNA clone IMAGE:4249087 5'
10472	23118		1.3	4.0E-85	BE079263.1	EST_HUMAN	RC1-BT0623-120200-011-c07 BT0623 Homo sapiens cDNA
1276	14026	26694	2.98	3.0E-85	AF096157.1	NT	Homo sapiens protein phosphatase 2A BR gamma subunit gene, exon 6
1773	14515	27215	3.51	3.0E-85	T97495.1	EST_HUMAN	ye33g09.1 Soares fetal liver spleen 1N1FLS Homo sapiens cDNA clone IMAGE:121504 5'
4280	17019	28646	6.53	3.0E-85	BE267189.1	EST_HUMAN	601189704F2 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3533616 5'
4841	17571	30194	1.45	3.0E-85	11024695	NT	Homo sapiens F-box only protein 24 (FBXO24), mRNA
4841	17571	30195	1.45	3.0E-85	11024695	NT	Homo sapiens F-box only protein 24 (FBXO24), mRNA
5316	18120	30777	1.07	3.0E-85	11436001	NT	Homo sapiens lactoferrin proline rich protein (LPRP), mRNA
5994	18775	31737	0.63	3.0E-85	11422024	NT	Homo sapiens met proto-oncogene (hepatocyte growth factor receptor) (MET), mRNA
6043	18823	31783	5.71	3.0E-85	7662309	NT	Homo sapiens KIAA0793 gene product (KIAA0793), mRNA
6043	18823	31784	5.71	3.0E-85	7662309	NT	Homo sapiens KIAA0793 gene product (KIAA0793), mRNA
6853	19553		7.79	3.0E-85	AJ404468.1	NT	Homo sapiens mRNA for dynein heavy chain (DNAH9 gene)
7295	19978	33055	0.91	3.0E-85	11416870	NT	Homo sapiens GTPase regulator associated with the focal adhesion kinase pp125(FAK); KIAA0621 protein (KIAA0621), mRNA
7771	20467	33591	1.89	3.0E-85	U44953.1	NT	Homo sapiens DENN mRNA, complete cds
8406	21099	34235	0.74	3.0E-85	11525829	NT	Homo sapiens CGI-81 protein (LOC51108), mRNA
8877	21568	34712	3.8	3.0E-85	11430889	NT	Homo sapiens phospholipase C, epsilon (PLCE), mRNA
9206	22085	35257	0.96	3.0E-85	11421422	NT	Homo sapiens small nuclear ribonucleoprotein polypeptide B" (SNRBP2), mRNA
9206	22085	35258	0.96	3.0E-85	11421422	NT	Homo sapiens small nuclear ribonucleoprotein polypeptide B" (SNRBP2), mRNA
10381	23027	36242	0.56	3.0E-85	AF089642.1	NT	Homo sapiens phospholipid scramblase mRNA, complete cds
10730	23418	36659	1.88	3.0E-85	BE150392.1	EST_HUMAN	RC1-HT0268-031299-012-f09 HT0268 Homo sapiens cDNA
11490	24091	37403	2.25	3.0E-85	5031660	NT	Homo sapiens EGF-like repeats and discoidin I-like domains 3 (EDIL3), mRNA
11824	24408	37742	1.79	3.0E-85	AB029030.1	NT	Homo sapiens mRNA for KIAA1107 protein, partial cds
11824	24408	37743	1.79	3.0E-85	AB029030.1	NT	Homo sapiens mRNA for KIAA1107 protein, partial cds
12840	24937		1.98	3.0E-85	11418177	NT	Homo sapiens Ran GTPase activating protein 1 (RANGAP1), mRNA

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
1017	13777	26438	2.34	2.0E-85	AF248540.1	NT	Homo sapiens Intersectin 2 (SH3D1B) mRNA, complete cds
1363	14130	26803	0.97	2.0E-85	7706205	NT	Homo sapiens CGI-201 protein (LOC51340), mRNA
1399	14146	26824	8.28	2.0E-85	5174775	NT	Homo sapiens apolipoprotein C-II (APOC2) mRNA
1399	14146	26825	8.28	2.0E-85	5174775	NT	Homo sapiens apolipoprotein C-II (APOC2) mRNA
2226	14954	27692	1.53	2.0E-85	U10525.1	NT	Human DNA polymerase beta gene, exons 12 and 13
2828	14083		5.28	2.0E-85	7657468	NT	Homo sapiens similar to rat integral membrane glycoprotein POM121 (POM121L1), mRNA
3022	15788	28435	1.18	2.0E-85	M30938.1	NT	Human Ku (p70/p80) subunit mRNA, complete cds
4300	17039	29666	4.51	2.0E-85	4505880	NT	Homo sapiens plasminogen (PLG) mRNA
4527	17282	29896	1.22	2.0E-85	4826977	NT	Homo sapiens reelin (RELN) mRNA
4854	17584	30207	0.97	2.0E-85	AL163284.2	NT	Homo sapiens chromosome 21 segment HS21C084
9173	21843	35009	3.18	2.0E-85	A1760820.1	EST_HUMAN	w167h08.x1 NCI_CGAP_Kid12 Homo sapiens cDNA clone IMAGE:2398431 3' similar to contains element
9549	2202	35385	1.08	2.0E-85	A1914459.1	EST_HUMAN	MSR1 repetitive element
10162	22810	36029	1.32	2.0E-85	A1886384.1	EST_HUMAN	w449d03.x1 Soares_NFL_1_GBC_S1 Homo sapiens cDNA clone IMAGE:2331461 3'
2285	15010		2.88	1.0E-85	BE794306.1	EST_HUMAN	wm94d12.x1 NCI_CGAP_U12 Homo sapiens cDNA clone IMAGE:2443607 3'
2392	15113	27850	8.42	1.0E-85	BE618392.1	EST_HUMAN	601462817F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3945818 5'
2392	15113	27851	8.42	1.0E-85	BE618392.1	EST_HUMAN	601462817F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3945818 5'
9681	22333	35528	4.38	1.0E-85	BE257917.1	EST_HUMAN	601462817F1 NIH_MGC_67 Homo sapiens cDNA clone IMAGE:3866021 5'
10842	23524	36766	2.77	1.0E-85	AA778785.1	EST_HUMAN	601109738F1 NIH_MGC_16 Homo sapiens cDNA clone IMAGE:3350553 5'
10842	23524	36767	2.77	1.0E-85	AA778785.1	EST_HUMAN	345503.s1 Soares_fetal_liver_spleen_1NFLS_S1 Homo sapiens cDNA clone IMAGE:453245 3'
10919	23599	36847	1.73	1.0E-85	BF311552.1	EST_HUMAN	345503.s1 Soares_fetal_liver_spleen_1NFLS_S1 Homo sapiens cDNA clone IMAGE:453245 3'
10919	23599	36848	1.73	1.0E-85	BF311552.1	EST_HUMAN	601897003F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:4128440 5'
10997	23670	36927	1.28	1.0E-85	Y00052.1	NT	601897003F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:4128440 5'
11773	24364	37696	2.41	1.0E-85	A1198420.1	EST_HUMAN	Human mRNA for T-cell cyclophilin
12050	24722	31053	4.4	1.0E-85	11417862	NT	q156a07.x1 NCI_CGAP_Bm25 Homo sapiens cDNA clone IMAGE:1860468 3'
12295	24722	31053	4.74	1.0E-85	BE274217.1	EST_HUMAN	Homo sapiens calcineurin binding protein 1 (KIAA0330), mRNA
1409	14156		11.19	9.0E-86	4503224	EST_HUMAN	Homo sapiens calcineurin binding protein 1 (KIAA0330), mRNA
11698	24293	37618	1.57	8.0E-86		NT	601120778F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:2967690 5'
916	13683	26345	2.34	7.0E-86	AA860801.1	EST_HUMAN	Homo sapiens cytochrome P450, subfamily IIF, polypeptide 1 (CYP2F1) mRNA
916	13683	26346	2.34	7.0E-86	AA860801.1	EST_HUMAN	ej88f08.s1 Soares_parathyroid_tumor_NbHPA Homo sapiens cDNA clone IMAGE:1403559 3'
6103	18881	31848	1.02	7.0E-86	9966886	NT	ej88f08.s1 Soares_parathyroid_tumor_NbHPA Homo sapiens cDNA clone IMAGE:1403559 3'
6103	18881	31849	1.02	7.0E-86	9966886	NT	Homo sapiens tumor endothelial marker 7 precursor (TEM7), mRNA
6880	17656	30553	6.65	7.0E-86	11421737	NT	Homo sapiens Tumor endothelial marker 7 precursor (TEM7), mRNA
8643	21335	34479	3.06	7.0E-86	L38557.1	NT	Homo sapiens Tax1 (human T-cell leukemia virus type I) binding protein 1 (TAX1BP1), mRNA
							Homo sapiens galactose oxidase (GALC) gene, exon 15

Table 4
Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptbr
9599	2252		1.39	7.0E-86	5453967	NT	Homo sapiens RAN binding protein 7 (RANBP7), mRNA
9658	22310	35508	2.27	7.0E-86	11526307	NT	Homo sapiens DGeorge syndrome critical region gene 6 (DGCR6), mRNA
10882	23562	36809	1.72	7.0E-86	11417012	NT	Homo sapiens similar to transcription factor CA150 (H. sapiens) (LOC63170), mRNA
10882	23562	36810	1.72	7.0E-86	11417012	NT	Homo sapiens similar to transcription factor CA150 (H. sapiens) (LOC63170), mRNA
1271	14020	26686	2.88	6.0E-86	4505492	NT	Homo sapiens oxoglutarate dehydrogenase (lipoamide) (OGDH), mRNA
5105	17823	30440	2.64	6.0E-86	Y19139.1	NT	Homo sapiens enteropeptidase gene, exons 20 and 21
5107	17825	30442	1.07	6.0E-86	6005633	NT	Homo sapiens 24 kDa intrinsic membrane protein (PMP24), mRNA
206	13018	25660	4.98	4.0E-86	BE547173.1	EST_HUMAN	601072594F1 NIH_MGC_12 Homo sapiens cDNA clone IMAGE:3458830 5'
5944	18726	31684	12.1	4.0E-86	BE285843.1	EST_HUMAN	601176865F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:3531853 5'
11205	13018	25660	2.18	4.0E-86	BE547173.1	EST_HUMAN	601072594F1 NIH_MGC_12 Homo sapiens cDNA clone IMAGE:3458830 5'
5509	18307	31208	6.97	3.0E-86	AW340946.1	EST_HUMAN	x292h12.x1 NCI_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:2871719 3'
8160	20854	33985	1.05	3.0E-86	AV722329	EST_HUMAN	AV722329 HTB Homo sapiens cDNA clone HTBBS04 5'
10120	22768	35980	3.37	3.0E-86	BE886479.1	EST_HUMAN	601509696F1 NIH_MGC_71 Homo sapiens cDNA clone IMAGE:3911303 5'
10120	22768	35981	3.37	3.0E-86	BE886479.1	EST_HUMAN	601509696F1 NIH_MGC_71 Homo sapiens cDNA clone IMAGE:3911303 5'
11413	23180	36408	5.14	3.0E-86	AI659240.1	EST_HUMAN	tu18b02.x1 NCI_CGAP_P128 Homo sapiens cDNA clone IMAGE:2251371 3'
11708	24303	37628	1.6	3.0E-86	11037056	NT	Homo sapiens myosin X (MYO10), mRNA
280	13088	25706	2.02	2.0E-86	AA308264.1	EST_HUMAN	EST177232 Jurkat T-cells.V1 Homo sapiens cDNA 5' end
405	13190		2.59	2.0E-86	AL163203.2	NT	Homo sapiens chromosome 21 segment HS21C003
1188	13922	26584	3.21	2.0E-86	N58977.1	EST_HUMAN	yz19a08.r1 Soares, multiple sclerosis, 2NBHMS Homo sapiens cDNA clone IMAGE:283478 5'
1478	14225	26910	1.93	2.0E-86	4758827	NT	Homo sapiens neuroxin III (NRXN3) mRNA
1478	14225	26911	1.93	2.0E-86	4758827	NT	Homo sapiens neuroxin III (NRXN3) mRNA
2188	14917	27651	5.09	2.0E-86	9635487	NT	Human endogenous retrovirus, complete genome
2266	14982	27732	1.55	2.0E-86	AB033103.1	NT	Homo sapiens mRNA for KIAA1277 protein, partial cds
3410	16168	28817	1.3	2.0E-86	AW966142.1	EST_HUMAN	EST378215 IMAGE resequences, MAGI Homo sapiens cDNA
3729	16481	29118	3.54	2.0E-86	AF156776.1	NT	Homo sapiens lycopospathidic acid acyltransferase-delta (LPAAT-delta) mRNA, complete cds
3729	16481	29119	3.54	2.0E-86	AF156776.1	NT	Homo sapiens lycopospathidic acid acyltransferase-delta (LPAAT-delta) mRNA, complete cds
4019	16765	30106	2.84	2.0E-86	AW515742.1	EST_HUMAN	hd87g08.x1 NCI_CGAP_GC8 Homo sapiens cDNA clone IMAGE:2916542 3'
4737	17469	31006	3.26	2.0E-86	AF056490.1	NT	Homo sapiens cAMP-specific phosphodiesterase 8A (PDE8A) mRNA, partial cds
5782	18573	31501	1.52	2.0E-86	Z16411.1	NT	H. sapiens mRNA encoding phospholipase c
5782	18573	31502	1.52	2.0E-86	Z16411.1	NT	H. sapiens mRNA encoding phospholipase c
6974	25098	32476	0.69	2.0E-86	11419429	NT	Homo sapiens similar to ectonucleotide pyrophosphatase/phosphodiesterase 3 (H. sapiens) (LOC63214), mRNA
7908	20603	33733	0.69	2.0E-86	U84744.1	NT	Human Chediak-Higashi syndrome protein short isoform (LYST) mRNA, complete cds
8414	21107		0.47	2.0E-86	AL163227.2	NT	Homo sapiens chromosome 21 segment HS21C027

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Table 4
Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
8472	21164	34307	2.31	2.0E-86	11437135	NT	Homo sapiens butyrobetaine (gamma), 2-oxoglutarate dioxygenase (gamma-butyrobetaine hydroxylase) (BBOX), mRNA
8472	21164	34308	2.31	2.0E-86	11437135	NT	Homo sapiens butyrobetaine (gamma), 2-oxoglutarate dioxygenase (gamma-butyrobetaine hydroxylase) (BBOX), mRNA
8801	21493	34840	0.85	2.0E-86	10863876	NT	Homo sapiens phospholipid scramblase 1 (PLSCR1), mRNA
9218	21897	35067	1.95	2.0E-86	11422084	NT	Homo sapiens chromosome segregation 1 (yeast homolog)-like (CSE1L), mRNA
10345	22992	36210	2.91	2.0E-86	11545846	NT	Homo sapiens basic-helix-loop-helix-PAS protein (NPAS3), mRNA
10345	22992	36211	2.91	2.0E-86	11545846	NT	Homo sapiens basic-helix-loop-helix-PAS protein (NPAS3), mRNA
10400	23048	36262	1.15	2.0E-86	AB037832.1	NT	Homo sapiens mRNA for KIAA1471 protein, partial cds
10820	23503	36742	2.54	2.0E-86	4759051	NT	Homo sapiens ribosomal protein S6 kinase, 90kD, polypeptide 5 (RPS6KA5), mRNA
12458	24827	31027	3.07	2.0E-86	11418189	NT	Homo sapiens thyroid autoantigen 70kD (Ku antigen) (G22P1), mRNA
12621	24926		4.26	2.0E-86	AB011399.1	NT	Homo sapiens gene for AF-6, complete cds
1592	14338	27027	2.28	1.0E-86	4826855	NT	Homo sapiens NADH dehydrogenase (ubiquinone) Fe-S protein 1 (75kD) (NADH-coenzyme Q reductase) (NDUFS1), mRNA
3160	15923	28569	1.5	1.0E-86	5453849	NT	Homo sapiens fibulin 5 (FBLN5), mRNA
3229	15992	28645	2.7	1.0E-86	L20492.1	NT	Human gamma-glutamyl transpeptidase mRNA, complete cds
3290	16051	28699	1.32	1.0E-86	AL163209.2	NT	Homo sapiens chromosome 21 segment HS21C009
3290	16051	28700	1.32	1.0E-86	AL163209.2	NT	Homo sapiens chromosome 21 segment HS21C009
3926	16676	29318	0.88	1.0E-86	7706161	NT	Homo sapiens hypothetical protein (LOC51318), mRNA
3926	16676	29319	0.88	1.0E-86	7706161	NT	Homo sapiens hypothetical protein (LOC51318), mRNA
4233	16974	29599	5.2	1.0E-86	AL163300.2	NT	Homo sapiens chromosome 21 segment HS21C100
4578	17313	29941	1.23	1.0E-86	4507334	NT	Homo sapiens synaptotagmin 1 (SYNJ1), mRNA
5465	18284	31155	2	1.0E-86	AL163284.2	NT	Homo sapiens chromosome 21 segment HS21C084
11606	18284	31155	1.37	1.0E-86	AL163284.2	NT	Homo sapiens chromosome 21 segment HS21C084
5272	18078		1.81	9.0E-87	AI150703.1	EST_HUMAN	qb77c09.xt Soares, Fetal Heart, NbHH19W Homo sapiens cDNA clone IMAGE:1706128 3' similar to SW:K1CJ_MOUSE P02535 KERATIN, TYPE I CYTOSKELETAL 10
7348	20028	33105	1.7	9.0E-87	4757721	NT	Homo sapiens a disintegrin and metalloproteinase domain 22 (ADAM22), mRNA
7348	20029	33106	1.7	9.0E-87	4757721	NT	Homo sapiens a disintegrin and metalloproteinase domain 22 (ADAM22), mRNA
467	13252	25893	15.93	8.0E-87	X62245.1	NT	O. cuniculus mRNA for elongation factor 1 alpha
2294	15019	27755	1.79	7.0E-87	BF063211.1	EST_HUMAN	7h85f02.xt NCI CGAP Co16 Homo sapiens cDNA clone IMAGE:3322779 3'
2294	15019	27756	1.79	7.0E-87	BF063211.1	EST_HUMAN	7h85f02.xt NCI CGAP Co16 Homo sapiens cDNA clone IMAGE:3322779 3'
6307	19079	32064	0.57	7.0E-87	AW800338.1	EST_HUMAN	MRO-NT0039-020500-004-at11 NT0039 Homo sapiens cDNA
8089	20783	33913	3.4	7.0E-87	BF352776.1	EST_HUMAN	IL3-H10619-060700-198-D10 HT0619 Homo sapiens cDNA
9354	20425	33544	1.15	7.0E-87	BE12981.1	EST_HUMAN	IL5-H10702-160600-103-d06 HT0702 Homo sapiens cDNA

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
9971	22619	35822	3.85	7.0E-87	AL043314.2	EST_HUMAN	DKFZp434N0323_r1 434 (synonym: hies3) Homo sapiens cDNA clone DKFZp434N0323 5'
9971	22619	35823	3.85	7.0E-87	AL043314.2	EST_HUMAN	DKFZp434N0323_r1 434 (synonym: hies3) Homo sapiens cDNA clone DKFZp434N0323 5'
10366	25129		0.51	7.0E-87	AI081585.1	EST_HUMAN	ox58h01.s1 Soares_NHMPu_S1 Homo sapiens cDNA clone IMAGE:1660657 3'
10808	23489	36724	6.65	7.0E-87	K03002.1	NT	Human mRNA from chromosome 15 gene with homology to MHC-HLA-SB-1 intron A
10808	23489	36725	6.65	7.0E-87	K03002.1	NT	Human mRNA from chromosome 15 gene with homology to MHC-HLA-SB-1 intron A
3517	18273	28927	0.99	6.0E-87	7657213.NT	NT	Homo sapiens hormonally upregulated neu tumor-associated kinase (HUNK), mRNA
5128	17846	30463	0.69	6.0E-87	7657213.NT	NT	Homo sapiens hormonally upregulated neu tumor-associated kinase (HUNK), mRNA
6327	18097	32085	2.02	6.0E-87	AB029004.1	NT	Homo sapiens mRNA for KIAA1081 protein, partial cds
10625	23318		4.13	6.0E-87	11432444.NT	NT	Homo sapiens similar to SET translocation (myeloid leukemia-associated) (H. sapiens) (LOC683102), mRNA
1135	13891	28551	1.42	5.0E-87	AA382811.1	EST_HUMAN	EST196094 Testis 1 Homo sapiens cDNA 5' end
12287	13891	28551	1.56	6.0E-87	AA382811.1	EST_HUMAN	EST196094 Testis 1 Homo sapiens cDNA 5' end
945	13711	26376	1.51	4.0E-87	AL163210.2	NT	Homo sapiens chromosome 21 segment HS21C010
1149	13904	26566	13.58	4.0E-87	AB037835.1	NT	Homo sapiens mRNA for KIAA1414 protein, partial cds
2024	14759	27488	1.53	4.0E-87	AB007925.1	NT	Homo sapiens mRNA for KIAA0456 protein, partial cds
2421	15142	27874	1.03	4.0E-87	7706299.NT	NT	Homo sapiens CGI-60 protein (LOC51626), mRNA
2421	15142	27875	1.03	4.0E-87	7706299.NT	NT	Homo sapiens CGI-60 protein (LOC51626), mRNA
3457	18213	28868	1.8	4.0E-87	5174574.NT	NT	Homo sapiens myeloid/lymphoid or mixed-lineage leukemia (trithorax (Drosophila) homolog); translocated to, 4 (MLLT4), mRNA
5360	18162	30846	2.77	4.0E-87	O00321	SWISSPROT	ETS-RELATED PROTEIN 71 (ETS TRANSLOCATION VARIANT 2)
5954	18736	31695	4.53	4.0E-87	BE247284.1	EST_HUMAN	TCBAP1E4051 Pediatric pre-B cell acute lymphoblastic leukemia Baylor-HGSC project=TCBA Homo sapiens cDNA clone TCBAP4051
7670	20334	33445	0.72	4.0E-87	L48524.1	NT	Homo sapiens tuberlin (TSC2) gene, exon 10
11118	23788	37065	3.44	4.0E-87	M60676.1	NT	Human von Willebrand factor pseudogene corresponding to exons 23 through 34
12398	25266	30721	1.5	4.0E-87	11417862.NT	NT	Homo sapiens calcineurin binding protein 1 (KIAA0330), mRNA
12398	25266	30722	1.5	4.0E-87	11417862.NT	NT	Homo sapiens calcineurin binding protein 1 (KIAA0330), mRNA
12541	24881		2.25	4.0E-87	11417812.NT	NT	Homo sapiens purinergic receptor P2X-like 1, orphan receptor (P2RXL1), mRNA
2779	15484	28223	2.77	2.0E-87	4885420.NT	NT	Homo sapiens high-mobility group (nonhistone chromosomal) protein 4 (HMG4), mRNA
3764	15516	29154	0.83	2.0E-87	AU116835.1	EST_HUMAN	AU116835 HEMBA1 Homo sapiens cDNA clone HEMBA1000307 5'
4857	17586	30209	1.26	2.0E-87	BF376311.1	EST_HUMAN	CMO-TN0038-150900-552-h08 TN0038 Homo sapiens cDNA
4907	17634	30249	1.47	2.0E-87	BE175478.1	EST_HUMAN	RC5-H10580-200300-031-G04 HT0580 Homo sapiens cDNA
5575	18372	31284	10.34	2.0E-87	BE734190.1	EST_HUMAN	G01569041F1 NIH_MGC.21 Homo sapiens cDNA clone IMAGE:3843730 5'
5575	18372	31285	10.34	2.0E-87	BE734190.1	EST_HUMAN	G01569041F1 NIH_MGC.21 Homo sapiens cDNA clone IMAGE:3843730 5'
6234	19008		9.81	2.0E-87	BE567183.1	EST_HUMAN	G01341383F1 NIH_MGC.53 Homo sapiens cDNA clone IMAGE:3683348 5'

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
6599	19362	32375	0.89	2.0E-87	N48128.1	EST_HUMAN	w21e07.r1 Soares fetal liver spleen 1N1FLS Homo sapiens cDNA clone IMAGE:243396 5'
6683	19600	32638	0.81	2.0E-87	AV654143.1	EST_HUMAN	AV654143 GLC Homo sapiens cDNA clone GLCDS04 3'
7073	19764	32828	1.58	2.0E-87	BE294432.1	EST_HUMAN	601176032F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:3531511 5'
7126	19814	32882	0.94	2.0E-87	11433046	NT	Homo sapiens heart domain and RLD 2 (HERC2), mRNA
7353	20034	33112	38.61	2.0E-87	N48128.1	EST_HUMAN	w21e07.r1 Soares fetal liver spleen 1N1FLS Homo sapiens cDNA clone IMAGE:243396 5'
7587	20255	33362	35.45	2.0E-87	N48128.1	EST_HUMAN	w21e07.r1 Soares fetal liver spleen 1N1FLS Homo sapiens cDNA clone IMAGE:243396 5'
8294	20898	34127	17.42	2.0E-87	X52851.1	NT	Human cyclophilin gene for cyclophilin (EC 5.2.1.8)
9685	22337		6.72	2.0E-87	BE531136.1	EST_HUMAN	601278315F1 NIH_MGC_39 Homo sapiens cDNA clone IMAGE:3610539 5'
1159	15521		2.09	1.0E-87	7705683	NT	Homo sapiens putative glycolipid transfer protein (LOC51054), mRNA
1411	14158	28840	1.1	1.0E-87	AW361977.1	EST_HUMAN	PM2-CT0285-141099-001-g04 CT0285 Homo sapiens cDNA
1411	14158	28841	1.1	1.0E-87	AW361977.1	EST_HUMAN	PM2-CT0285-141099-001-g04 CT0285 Homo sapiens cDNA
3697	16451	29080	6.23	1.0E-87	Y00052.1	NT	Human mRNA for T-cell cyclophilin
3717	16470	29108	2.43	1.0E-87	4758827	NT	Homo sapiens neurexin III (NRXN3), mRNA
5095	17814	30431	0.89	1.0E-87	AF114487.1	NT	Homo sapiens intersectin long isoform (ITSN), complete cds
5095	17814	30432	0.89	1.0E-87	AF114487.1	NT	Homo sapiens intersectin long isoform (ITSN), complete cds
5149	12933	25570	1.04	1.0E-87	AI004081.1	EST_HUMAN	o60d04.s1 Soares testis_NHT Homo sapiens cDNA clone IMAGE:1620199 3'
6132	18910	31878	1.91	1.0E-87	AF073371.1	NT	Homo sapiens growth factor receptor-bound protein 10 (GRB10) gene, exon 3
6132	18910	31879	1.91	1.0E-87	AF073371.1	NT	Homo sapiens growth factor receptor-bound protein 10 (GRB10) gene, exon 8
7077	19768	32832	0.82	1.0E-87	AF039517.1	NT	Homo sapiens corticotropin-releasing factor type 1 receptor gene, exon 8
7077	19768	32833	0.82	1.0E-87	AF039517.1	NT	Homo sapiens corticotropin-releasing factor type 1 receptor gene, exon 8
7083	19773	32838	1.18	1.0E-87	4508786	NT	Homo sapiens IQ motif containing GTPase activating protein 1 (IQGAP1), mRNA
7298	19881	33057	1.23	1.0E-87	11431590	NT	Homo sapiens protein kinase C, beta 1 (PRKCB1), mRNA
8015	20710	33840	12.83	1.0E-87	AF214562.1	NT	Homo sapiens tracheal epithelium enriched protein (PLUNC) gene, complete cds
8807	21499	34644	0.97	1.0E-87	AB022918.1	NT	Homo sapiens mRNA for alpha2,3-sialyltransferase ST3Gal VI, complete cds
8807	21499	34645	0.97	1.0E-87	AB022918.1	NT	Homo sapiens mRNA for alpha2,3-sialyltransferase ST3Gal VI, complete cds
9533	22186	35371	2.85	1.0E-87	BE18183.1	EST_HUMAN	RC6-BN0276-050700-012-E02 BN0276 Homo sapiens cDNA
9533	22186	35372	2.85	1.0E-87	BE18183.1	EST_HUMAN	RC6-BN0276-050700-012-E02 BN0276 Homo sapiens cDNA
10272	22920	36131	0.67	1.0E-87	M34426.1	NT	Human L-plastin mRNA, 5' end
10633	23225	36562	1.55	1.0E-87	5729867	NT	Homo sapiens heart domain and RLD 2 (HERC2), mRNA
10921	23601		1.92	1.0E-87	D10083.1	NT	Homo sapiens RGH1 gene, retrovirus-like element
10965	23641	36893	1.68	1.0E-87	5031660	NT	Homo sapiens EGF-like repeats and discoidin-like domains 3 (EDIL3), mRNA
10965	23641	36894	1.68	1.0E-87	5031660	NT	Homo sapiens EGF-like repeats and discoidin-like domains 3 (EDIL3), mRNA
12393	25404		3.54	1.0E-87	7657632	NT	Homo sapiens sulfotransferase-related protein (SULTX3), mRNA
12809	25240		3.94	1.0E-87	7657632	NT	Homo sapiens sulfotransferase-related protein (SULTX3), mRNA

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Single Exon Probes Expressed in Brain

Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
1084	13842	26500	10.24	9.0E-88	AF167465.1	NT	Homo sapiens double stranded RNA activated protein kinase (PKR) gene, exon 12
1327	14076	26750	2.76	9.0E-88	AB037820.1	NT	Homo sapiens mRNA for KIAA1399 protein, partial cds
1327	14076	26751	2.76	9.0E-88	AB037820.1	NT	Homo sapiens mRNA for KIAA1399 protein, partial cds
2115	14846	27575	1.57	9.0E-88	7661701	NT	Homo sapiens DKFZP586P1522 protein (DKFZP586P1522), mRNA
3617	16370	29012	1.35	9.0E-88	AL163209.2	NT	Homo sapiens chromosome 21 segment HS21C009
4236	16977	29602	2.73	9.0E-88	X91929.1	NT	H. sapiens EOE-1 gene (exon 9)
4236	16977	29603	2.73	9.0E-88	X91929.1	NT	H. sapiens EOE-1 gene (exon 9)
4943	17670	30279	1.05	9.0E-88	AB026898.1	NT	Homo sapiens DNA, DLEC1 to ORCTL4 gene region, section 1/2 (DLEC1, ORCTL3, ORCTL4 genes, complete cds)
8919	21610	34754	3.82	6.0E-88	AF003528.1	NT	Homo sapiens X-linked anhidrotic ectodermal dysplasia protein gene (EDA), exon 2 and flanking repeat regions
1820	14559		1.02	5.0E-88	7661887	NT	Homo sapiens KIAA0063 gene product (KIAA0063), mRNA
2845	15355	28100	3.76	5.0E-88	N89399.1	EST_HUMAN	K9719F Human fetal heart, Lambda ZAP Express Homo sapiens cDNA clone K9719 5' similar to ZINC FINGER PROTEIN HZF1
3000	15766	28414	0.9	5.0E-88	AF114488.1	NT	Homo sapiens Intersectin short isoform (ITSN) mRNA, complete cds
3384	16143		2.28	5.0E-88	AI693217.1	EST_HUMAN	wd68h08.x1 NCI_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:2336799 3' similar to contains Alu repetitive element/contains element MER22 MER22 repetitive element ;
4687	17421	30056	0.83	5.0E-88	AF114488.1	NT	Homo sapiens Intersectin short isoform (ITSN) mRNA, complete cds
6672	19589	32625	3.19	5.0E-88	H10892.1	EST_HUMAN	ym06b10.1 Scores infant brain 1N1B Homo sapiens cDNA clone IMAGE:47129 5'
7830	20525	33650	1.8	5.0E-88	AL163284.2	NT	Homo sapiens chromosome 21 segment HS21C084
9211	21890	35057	0.45	5.0E-88	BF680206.1	EST_HUMAN	602154958F1 NIH_MGC_93 Homo sapiens cDNA clone IMAGE:4295775 5'
1306	14055	26729	1.42	4.0E-88	BF091229.1	EST_HUMAN	PM1-TN0028-050900-004-f10 TN0028 Homo sapiens cDNA
1306	14055	26730	1.42	4.0E-88	BF091229.1	EST_HUMAN	PM1-TN0028-050900-004-f10 TN0028 Homo sapiens cDNA
7143	19830	32899	1.43	4.0E-88	11416585	NT	Homo sapiens transforming growth factor, beta-induced 88kD (TGFB1), mRNA
10827	23509	36749	1.8	4.0E-88	4502694	NT	Homo sapiens cell division cycle 10 (homologous to CDC10 of S. cerevisiae) (CDC10) mRNA
11471	24072	37380	1.89	4.0E-88	7661947	NT	Homo sapiens KIAA0152 gene product (KIAA0152), mRNA
11471	24072	37381	1.89	4.0E-88	7661947	NT	Homo sapiens KIAA0152 gene product (KIAA0152), mRNA
715	13489	26140	1.85	3.0E-88	11545800	NT	Homo sapiens hypothetical protein FLJ21634 (FLJ21634), mRNA
1805	14545		1.96	3.0E-88	4508020	NT	Homo sapiens zinc finger protein 259 (ZNF259) mRNA
2948	15714	28367	4.11	3.0E-88	N66951.1	EST_HUMAN	za48f12.s1 Scores fetal liver spleen 1N1FLS Homo sapiens cDNA clone IMAGE:285823 3'
4216	16957	29579	1.24	3.0E-88	4501912	NT	Homo sapiens a disintegrin and metalloproteinase domain 23 (ADAM23) mRNA
4216	16957	29580	1.24	3.0E-88	4501912	NT	Homo sapiens a disintegrin and metalloproteinase domain 23 (ADAM23) mRNA
4444	17180		4.06	3.0E-88	11429300	NT	Homo sapiens hypothetical protein FLJ20220 (FLJ20220), mRNA
5216	18024	30648	2.85	3.0E-88	11429567	NT	Homo sapiens valosin-containing protein (VCP), mRNA

Table 4

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5498	18298	31194	4.13	3.0E-88	9968888	NT	Homo sapiens polycythemia rubra vera 1; cell surface receptor (PRV1), mRNA
5618	18414	31327	3.56	3.0E-88	11420697	NT	Homo sapiens v-ral simian leukemia viral oncogene homolog A (ras related) (RALA), mRNA
6069	18848	31812	0.61	3.0E-88	11417370	NT	Homo sapiens interleukin 13 (IL13), mRNA
6319	25088	32076	1.18	3.0E-88	11419210	NT	Homo sapiens activator of S phase kinase (ASK), mRNA
6319	25088	32077	1.18	3.0E-88	11419210	NT	Homo sapiens activator of S phase kinase (ASK), mRNA
6865	19447	32465	14.59	3.0E-88	AF279265.1	NT	Homo sapiens putative anion transporter 1 mRNA, complete cds
7440	20117	33206	6.15	3.0E-88	11436400	NT	Homo sapiens retinoblastoma-binding protein 2 (RBBP2), mRNA
7821	20516	33642	9.58	3.0E-88	11421726	NT	Homo sapiens growth differentiation factor 5 (cartilage-derived morphogenetic protein-1) (GDF5), mRNA
8096	20790	33921	1.35	3.0E-88	AF034374.1	NT	Homo sapiens molybdenum cofactor biosynthesis protein A and molybdenum cofactor biosynthesis protein C mRNA, complete cds
9334	20405	33521	1.99	3.0E-88	11526262	NT	Homo sapiens v-ets avian erythroblastosis virus E26 oncogene related (ERG), mRNA
9828	22479	35680	0.58	3.0E-88	AB015228.1	NT	Homo sapiens mRNA for RALDH2-T, complete cds
9828	22479	35681	0.58	3.0E-88	AB015228.1	NT	Homo sapiens mRNA for RALDH2-T, complete cds
9857	22507	35705	1.28	3.0E-88	11439066	NT	Homo sapiens acyl-Coenzyme A dehydrogenase family, member 8 (ACAD8), mRNA
12139	24628		5.97	3.0E-88	11417974	NT	Homo sapiens transcobalamin II; macrocytic anemia (TCN2), mRNA
1013	13773	28432	3.32	2.0E-88	7305198	NT	Homo sapiens Caldesin, presentin-binding protein, EF hand transcription factor (CSEN), mRNA
1620	14967	27056	1.38	2.0E-88	AF246219.1	NT	Homo sapiens SNARE protein kinase SNARE mRNA, complete cds
1744	14486	27185	3.13	2.0E-88	AF246219.1	NT	Homo sapiens SNARE protein kinase SNARE mRNA, complete cds
3458	16214	28867	1.52	2.0E-88	AF246219.1	NT	Homo sapiens SNARE protein kinase SNARE mRNA, complete cds
4391	17128	29760	2.13	2.0E-88	5031668	NT	Homo sapiens dynein, axonemal, light polypeptide 4 (DNAL4), mRNA
5821	18610	31539	5.63	1.0E-88	AW139565.1	EST_HUMAN	UI-H-B11-aea-d-04-0-UI.s1 NCI CGAP_Sub3 Homo sapiens cDNA clone IMAGE:2718750 3'
5821	18610	31540	5.63	1.0E-88	AW139565.1	EST_HUMAN	UI-H-B11-aea-d-04-0-UI.s1 NCI CGAP_Sub3 Homo sapiens cDNA clone IMAGE:2718750 3'
6548	19313	32317	23.81	1.0E-88	AB007877.1	NT	Homo sapiens KIAA0417 mRNA, complete cds
6548	19313	32318	23.81	1.0E-88	AB007877.1	NT	Homo sapiens KIAA0417 mRNA, complete cds
7022	19714	32771	1.4	1.0E-88	AJ969034.1	EST_HUMAN	wq70at12.x1 NCI CGAP_GC6 Homo sapiens cDNA clone IMAGE:2476606 3'
7084	19774	32839	4.42	1.0E-88	AA488981.1	EST_HUMAN	aa64at11.s1 NCI CGAP_GC6 Homo sapiens cDNA clone IMAGE:824732 3' similar to WP:B0272.2 CE00851
9141	21872	35037	0.6	1.0E-88	AA190368.1	EST_HUMAN	zp87c02.r1 Strathgona HeLa cell c8 937218 Homo sapiens cDNA clone IMAGE:627170 5' similar to SW:POL1_HUMAN P10266 RETROVIRUS-RELATED POL POLYPROTEIN
9478	22131	35311	2.97	1.0E-88	AL043314.2	EST_HUMAN	DKFZp434N0323_r1 434 (synonym: hhes3) Homo sapiens cDNA clone DKFZp434N0323 5'
11422	23189	36420	2.99	1.0E-88	AA991479.1	EST_HUMAN	os91g03.s1 NCI CGAP_GC3 Homo sapiens cDNA clone IMAGE:1612786 3' similar to gb:MT16342 HETEROGENEOUS NUCLEAR RIBONUCLEOPROTEINS C1/C2 (HUMAN);
12356	24760		3	1.0E-88	AL163246.2	NT	Homo sapiens chromosome 21 segment HS21C046

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2739	15445	28184	1.33	8.0E-89	BE311557.1	EST_HUMAN	601142409F1 NIH_MGC_14 Homo sapiens cDNA clone IMAGE:3506186 5'
6833	19495	32519	1.2	8.0E-89	11421514	NT	Homo sapiens similar to sema domain, immunoglobulin domain (Ig), short basic domain, secreted, (semaphorin) 3A (H. sapiens) (LOC63232), mRNA
424	13210	28566	1.72	7.0E-89	7657213	NT	Homo sapiens homonally upregulated neu tumor-associated kinase (HUNK), mRNA
424	13210	28567	1.72	7.0E-89	7657213	NT	Homo sapiens homonally upregulated neu tumor-associated kinase (HUNK), mRNA
4828	17559	30181	2.86	7.0E-89	4557390	NT	Homo sapiens complement component 8, beta polypeptide (C8B), mRNA
4878	17605	30228	3.35	7.0E-89	AL045748.1	EST_HUMAN	DKFZp434E246_r1 434 (synonym: htes3) Homo sapiens cDNA clone DKFZp434E246 5'
5345	18148	30827	1.34	7.0E-89	X99832.1	NT	H. sapiens CLN3 gene, complete CDS
5345	18148	30828	1.34	7.0E-89	X99832.1	NT	H. sapiens CLN3 gene, complete CDS
6250	19024	31997	0.57	7.0E-89	7549808	NT	Homo sapiens plastin 3 (T isoform) (PLS3), mRNA
6250	19024	31998	0.57	7.0E-89	7549808	NT	Homo sapiens plastin 3 (T isoform) (PLS3), mRNA
7398	20076	33156	2.06	7.0E-89	11420754	NT	Homo sapiens actin related protein 2/3 complex, subunit 1A (41 kD) (ARPC1A), mRNA
7778	20474	33598	0.57	7.0E-89	11417118	NT	Homo sapiens KIAA0433 protein (KIAA0433), mRNA
7778	20474	33599	0.57	7.0E-89	11417118	NT	Homo sapiens KIAA0433 protein (KIAA0433), mRNA
9584	22237	35421	0.6	7.0E-89	AB011133.1	NT	Homo sapiens mRNA for KIAA0561 protein, partial cds
10429	23075	36296	1.11	7.0E-89	X62048.1	NT	H. sapiens Wee1 hu gene
10429	23075	36297	1.11	7.0E-89	X62048.1	NT	H. sapiens Wee1 hu gene
10445	23091	36320	2.33	7.0E-89	AB020630.1	NT	Homo sapiens mRNA for KIAA0823 protein, partial cds
10445	23091	36321	2.33	7.0E-89	AB020630.1	NT	Homo sapiens mRNA for KIAA0823 protein, partial cds
11203	23867	37164	1.45	7.0E-89	M59783.1	NT	Human aldose reductase (AR) gene, segment 2
12774	25028		1.7	7.0E-89	U87927.1	NT	Human aconitase hydratase (ACO2) gene, exon 2
1002	13762	26423	0.73	6.0E-89	5803114	NT	Homo sapiens inner membrane protein, mitochondrial (mitofilin) (IMMT), mRNA
2210	14938	27676	1.27	6.0E-89	4506124	NT	Homo sapiens serine/threonine-protein kinase PRP4 homolog (PRP4), mRNA
2434	15155	27888	1.06	6.0E-89	4507788	NT	Homo sapiens ubiquitin-conjugating enzyme E2L 3 (UBE2L3), mRNA
2434	15155	27889	1.06	6.0E-89	4507788	NT	Homo sapiens ubiquitin-conjugating enzyme E2L 3 (UBE2L3), mRNA
3515	16271	28925	0.88	6.0E-89	7561817	NT	Homo sapiens HSPC159 protein (HSPC159), mRNA
4593	17328	29954	3.02	6.0E-89	AB007866.2	NT	Homo sapiens mRNA for KIAA0406 protein, partial cds
4593	17328	29955	3.02	6.0E-89	AB007866.2	NT	Homo sapiens mRNA for KIAA0406 protein, partial cds
5100	17819	30436	0.81	6.0E-89	6806918	NT	Homo sapiens low density lipoprotein-related protein 2 (LRP2), mRNA
5100	17819	30437	0.81	6.0E-89	6806918	NT	Homo sapiens low density lipoprotein-related protein 2 (LRP2), mRNA
5016	17737	30345	2.74	5.0E-89	BE244323.1	EST_HUMAN	TCBAP250383 Pediatric pre-B cell acute lymphoblastic leukemia Baylor-HGSC project=TCBA Homo sapiens cDNA clone TCBAP0383
5016	17737	30346	2.74	5.0E-89	BE244323.1	EST_HUMAN	TCBAP250383 Pediatric pre-B cell acute lymphoblastic leukemia Baylor-HGSC project=TCBA Homo sapiens cDNA clone TCBAP0383

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7487	20159	33251	1.95	4.0E-89	BE762749.1	EST_HUMAN	QV3-NT0022-080600-219-g03 NT0022 Homo sapiens cDNA
11088	23758	37034	1.56	4.0E-89	AI798672.1	EST_HUMAN	we91c03.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2348452 3'
2878	15646	28289	1.51	3.0E-89	AW976181.1	EST_HUMAN	EST388280 IMAGE resequences, MAGN Homo sapiens cDNA
7040	19731	32790	1.26	3.0E-89	AI217359.1	EST_HUMAN	qh17606.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:1844915 3'
10502	23148	36374	0.48	3.0E-89	AB002297.1	NT	Human mRNA for KIAA0299 gene, partial cds
10702	23393	36630	2.34	3.0E-89	N57357.1	EST_HUMAN	yw86e11.1 Soares_placenta_8to9weeks_2NbHP809W Homo sapiens cDNA clone IMAGE:259148 5' similar to SW:PI4K_HUMAN P42396 PHOSPHATIDYLINOSITOL 4-KINASE ALPHA.1
123	13184	25832	0.87	2.0E-89	7706670	NT	Homo sapiens PXR2b protein (PXR2b), mRNA
123	13184	25833	0.87	2.0E-89	7706670	NT	Homo sapiens PXR2b protein (PXR2b), mRNA
389	13184	25832	1.55	2.0E-89	7706670	NT	Homo sapiens PXR2b protein (PXR2b), mRNA
399	13184	25833	1.55	2.0E-89	7706670	NT	Homo sapiens PXR2b protein (PXR2b), mRNA
517	13301	25933	3.17	2.0E-89	AB037763.1	NT	Homo sapiens mRNA for KIAA1342 protein, partial cds
2853	15650	28293	1.53	2.0E-89	AI222095.1	EST_HUMAN	qg96c08.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:1843022 3' similar to gb:J04131
3540	16296	28946	1.01	2.0E-89	AA759149.1	EST_HUMAN	GAMMA-GLUTAMYLTRANSFERASE 1 PRECURSOR (HUMAN), contains Alu repetitive element
3540	16296	28947	1.01	2.0E-89	AA759149.1	EST_HUMAN	ah70e03.s1 Soares_testis_NHT Homo sapiens cDNA clone 1320988 3'
4125	16887	29494	1.26	2.0E-89	AF089897.1	NT	ah70e03.s1 Soares_testis_NHT Homo sapiens cDNA clone 1320988 3'
4133	16875	29504	5.16	2.0E-89	X56742.1	NT	Homo sapiens HCK gene for tyrosine kinase (PTK), exons 10-11
4133	16875	29505	5.16	2.0E-89	X56742.1	NT	H.sapiens HCK gene for tyrosine kinase (PTK), exons 10-11
4315	17054	29679	0.75	2.0E-89	AL163203.2	NT	H.sapiens HCK gene for tyrosine kinase (PTK), exons 10-11
4463	17199	29825	1.1	2.0E-89	AJ007378.1	NT	Homo sapiens chromosome 21 segment HS21C003
5259	18065		0.66	2.0E-89	BE541744.1	EST_HUMAN	Homo sapiens GGT gene, exon 5
5383	18193	30886	2.9	2.0E-89	AB007546.1	NT	607065996F1 NIH_MGC_10 Homo sapiens cDNA clone IMAGE:3452423 5'
5702	18496	31418	1.61	2.0E-89	U03985.1	NT	Homo sapiens gene for LECT2, complete cds
6116	18894	31861	0.63	2.0E-89	AL163285.2	NT	Human N-ethylmaleimide-sensitive factor mRNA, partial cds
7567	20237	33341	5.33	2.0E-89	U81004.1	NT	Homo sapiens chromosome 21 segment HS21C085
7835	20530	33657	3.07	2.0E-89	11428801	NT	Human GT24 (GT24) mRNA, partial cds
8316	21009	34146	1.02	2.0E-89	AJ245503.1	NT	Homo sapiens solute carrier family 24 (sodium/potassium/calcium exchanger), member 2 (SLC24A2), mRNA
9152	21883	35052	0.6	2.0E-89	AB037754.1	NT	Homo sapiens partial mRNA for PEX5 related protein
9710	22361	35557	0.68	2.0E-89	AF170814.1	NT	Homo sapiens mRNA for KIAA1333 protein, partial cds
9710	22361	35558	0.68	2.0E-89	AF170814.1	NT	Homo sapiens CaBP5 (CaBP5) gene, exon 5

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
11346	24036	37339	2.83	2.0E-89	11434411	NT	Homo sapiens integrin, alpha 3 (antigen CD49C, alpha 3 subunit of VLA-3 receptor) (ITGA3), mRNA
11448	23215	36447	2.3	2.0E-89	5729867	NT	Homo sapiens lect domain and RLD 2 (HERC2), mRNA
11562	24161	37472	5.03	2.0E-89	11433673	NT	Homo sapiens cell adhesion molecule with homology to L1CAM (close homologue of L1) (CHL1), mRNA
11718	24312	37636	2.11	2.0E-89	U10692.1	NT	Human IMAGE-7 antigen (IMAGE7) pseudogene, complete cds
11570	24169	37483	5.97	1.0E-89	BF196052.1	EST_HUMAN	h81d09.x1 NCI_CGAP_Kid11 Homo sapiens cDNA clone IMAGE:3134897 3' similar to TR:O54778 O54778 SOLUTE CARRIER FAMILY 22-LIKE 2 PROTEIN ;
11570	24169	37484	5.97	1.0E-89	BF196052.1	EST_HUMAN	SOLUTE CARRIER FAMILY 22-LIKE 2 PROTEIN ;
8126	20820	33956	1.57	9.0E-90	AL163246.2	NT	Homo sapiens chromosome 21 segment HS21C046
8126	20820	33957	1.57	9.0E-90	AL163246.2	NT	Homo sapiens chromosome 21 segment HS21C046
1041	13801	26459	2.23	8.0E-90	AL163246.2	NT	Homo sapiens chromosome 21 segment HS21C046
1042	13801	26459	2.9	8.0E-90	AL163246.2	NT	Homo sapiens chromosome 21 segment HS21C046
1307	15565	26731	3.78	8.0E-90	BE670561.1	EST_HUMAN	7e36f08.x1 NCI_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3284583 3'
1307	15565	26732	3.78	8.0E-90	BE670561.1	EST_HUMAN	7e36f08.x1 NCI_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3284583 3'
8458	21150	34293	0.55	8.0E-90	BE177830.1	EST_HUMAN	RC1-HT0598-120400-022-508 HT0598 Homo sapiens cDNA
10599	23293	36531	1.52	8.0E-90	A1222095.1	EST_HUMAN	qg96c08.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:1843022 3' similar to gb:J04131 GAMMA-GLUTAMYLTRANSFERASE 1 PRECURSOR (HUMAN); contains Alu repetitive element;
10599	23293	36532	1.52	8.0E-90	A1222095.1	EST_HUMAN	qg96c08.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:1843022 3' similar to gb:J04131 GAMMA-GLUTAMYLTRANSFERASE 1 PRECURSOR (HUMAN); contains Alu repetitive element;
10963	23639	36899	1.32	8.0E-90	AA705222.1	EST_HUMAN	z182g10.s1 Soares_fetal_liver_spleen_1NFLS_S1 Homo sapiens cDNA clone IMAGE:461442 3'
10963	23639	36899	1.32	8.0E-90	AA705222.1	EST_HUMAN	z182g10.s1 Soares_fetal_liver_spleen_1NFLS_S1 Homo sapiens cDNA clone IMAGE:461442 3'
816	13587		4.12	7.0E-90	AF223391.1	NT	Homo sapiens calcium channel alpha1E subunit (CACNA1E) gene, exons 7-49, and partial cds, alternatively spliced
8323	21016		2.08	7.0E-90	AA782977.1	EST_HUMAN	ai63d08.s1 Soares_testis_NHT Homo sapiens cDNA clone 1375503 3'
8865	21556	34701	1.62	7.0E-90	BE962525.2	EST_HUMAN	6071655837R1 NIH_MGC_66 Homo sapiens cDNA clone IMAGE:3855824 3'
8865	21556	34702	1.62	7.0E-90	BE962525.2	EST_HUMAN	6071655837R1 NIH_MGC_66 Homo sapiens cDNA clone IMAGE:3855824 3'
10036	22694	35901	1.9	7.0E-90	H68849.1	EST_HUMAN	y86e04.s1 Soares_fetal_liver_spleen_1NFLS_Homo sapiens cDNA clone IMAGE:212190 3' similar to SP:C1TC_HUMAN P11586 C-1-TETRAHYDROFOLATE SYNTHASE, CYTOPLASMIC ;
10036	22694	35902	1.9	7.0E-90	H68849.1	EST_HUMAN	y86e04.s1 Soares_fetal_liver_spleen_1NFLS_Homo sapiens cDNA clone IMAGE:212190 3' similar to SP:C1TC_HUMAN P11586 C-1-TETRAHYDROFOLATE SYNTHASE, CYTOPLASMIC ;

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Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
10352	22899	36216	1.17	7.0E-90	BF626089.1	EST_HUMAN	602071208F1 NCL_CGAP_Bm64 Homo sapiens cDNA clone IMAGE:4214257 5'
4201	16942	29568	9.12	6.0E-90	8922398	NT	Homo sapiens hypothetical protein FLJ10388 (FLJ10388), mRNA
4201	16942	29569	9.12	6.0E-90	8922398	NT	Homo sapiens hypothetical protein FLJ10388 (FLJ10388), mRNA
5894	18679	31625	3.27	6.0E-90	U77700.1	NT	Homo sapiens HsGCN1 mRNA, partial cds
5894	18679	31626	3.27	6.0E-90	U77700.1	NT	Homo sapiens HsGCN1 mRNA, partial cds
8225	20919	34056	2.75	6.0E-90	4504794	NT	Homo sapiens inositol 1,4,5-trisphosphate receptor, type 3 (ITPR3) mRNA
8225	20919	34057	2.75	6.0E-90	4504794	NT	Homo sapiens inositol 1,4,5-trisphosphate receptor, type 3 (ITPR3) mRNA
151	12966		19.84	6.0E-90	AB035344.1	NT	Homo sapiens TCL6 gene, exon 1-10b
1170	13924	26586	3.08	5.0E-90	U80226.1	NT	Human gamma-aminobutyric acid transaminase mRNA, partial cds
1813	14553	27267	1.47	5.0E-90	A1222095.1	EST_HUMAN	gg96c08.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:1843022 3' similar to gb.J04131 GAMMA-GLUTAMYL TRANSPEPTIDASE 1 PRECURSOR (HUMAN); contains Alu repetitive element;
1813	14553	27268	1.47	5.0E-90	A1222095.1	EST_HUMAN	gg96c08.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:1843022 3' similar to gb.J04131 GAMMA-GLUTAMYL TRANSPEPTIDASE 1 PRECURSOR (HUMAN); contains Alu repetitive element;
2560	15274	28011	2.79	5.0E-90	AF114487.1	NT	Homo sapiens Intersectin long isoform (ITSN) mRNA, complete cds
4503	17238	29871	2.05	5.0E-90	4506354	NT	Homo sapiens pregnancy-zone protein (PZP) mRNA
4622	17357	29892	0.98	5.0E-90	AL135549.1	EST_HUMAN	DKFZ762P1616.1 762 (synonym: hma12) Homo sapiens cDNA clone DKFZ762P1616 5'
5504	18302	31203	2.94	5.0E-90	Z16411.1	NT	H. sapiens mRNA encoding phospholipase c
5606	18402	31316	1.31	5.0E-90	AB015617.1	NT	Homo sapiens ELKS mRNA, complete cds
5679	18302	31203	2.36	5.0E-90	Z16411.1	NT	H. sapiens mRNA encoding phospholipase c
6631	19393	32407	0.74	5.0E-90	9910365	NT	Homo sapiens Carbonic anhydrase-related protein 10 (LOC56934), mRNA
6831	19393	32408	0.74	5.0E-90	9910365	NT	Homo sapiens Carbonic anhydrase-related protein 10 (LOC56934), mRNA
7114	19802	32866	2.04	5.0E-90	AF113708.1	NT	Homo sapiens angiotensin 4 (ANG4) mRNA, partial cds
7114	19802	32867	2.04	5.0E-90	AF113708.1	NT	Homo sapiens angiotensin 4 (ANG4) mRNA, partial cds
7463	20136	33228	9.01	5.0E-90	4557268	NT	Homo sapiens adenylate cyclase 9 (ADCY9) mRNA
7790	20486	33609	0.44	5.0E-90	4506758	NT	Homo sapiens ryanodine receptor 3 (RYR3) mRNA
8192	20886	34025	5.08	5.0E-90	11345483	NT	Homo sapiens hypothetical protein FLJ13222 (FLJ13222), mRNA
9096	21784	34950	0.56	5.0E-90	4826670	NT	Homo sapiens cathepin 18 (CDH18) mRNA
9579	22232	35416	1.06	5.0E-90	11419429	NT	Homo sapiens similar to ecdonucleotide pyrophosphatase/phosphodiesterase 3 (H. sapiens) (LOC83214), mRNA
10181	22829	36044	0.56	5.0E-90	AF123303.1	NT	Homo sapiens calcium-binding transporter mRNA, partial cds
10312	22869	36175	0.5	5.0E-90	11417118	NT	Homo sapiens KIAA0433 protein (KIAA0433), mRNA
10312	22869	36176	0.5	5.0E-90	11417118	NT	Homo sapiens KIAA0433 protein (KIAA0433), mRNA

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Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
10344	22991	36209	9.16	5.0E-90	11433721	NT	Homo sapiens ATPase, aminophospholipid transporter-like, Class I, type 8A, member 2 (ATP8A2), mRNA
10402	23048	36284	0.54	5.0E-90	7682051	NT	Homo sapiens KIAA0317 gene product (KIAA0317), mRNA
10402	23048	36265	0.54	5.0E-90	7682051	NT	Homo sapiens KIAA0317 gene product (KIAA0317), mRNA
11731	24324	37648	2.41	6.0E-90	7682047	NT	Homo sapiens KIAA0305 gene product (KIAA0305), mRNA
12591	24948		2.08	5.0E-90	AB011399.1	NT	Homo sapiens gene for AF-6, complete cds
12641	24938		4.43	5.0E-90	AF523366.1	EST_HUMAN	af78h05.x1 Barslead aorta HPLRB8 Homo sapiens cDNA clone IMAGE:2128761 3'
295	13101	25742	1.93	4.0E-90	AF231920.1	NT	Homo sapiens chromosome 21 unknown mRNA
295	13101	25743	1.93	4.0E-90	AF231920.1	NT	Homo sapiens chromosome 21 unknown mRNA
1064	13822	26482	3.26	4.0E-90	4505318	NT	Homo sapiens myosin phosphatase, target subunit 1 (MYPT1), mRNA
1684	14428	27125	8.09	4.0E-90	X98033.1	NT	H.sapiens gene encoding discoidin receptor tyrosine kinase, exon 1b
2992	15758	28405	0.98	4.0E-90	AF007544.1	NT	Homo sapiens prostate-specific membrane antigen (PSM) gene, complete cds
3023	15789	28438	1.07	4.0E-90	6806918	NT	Homo sapiens low density lipoprotein-related protein 2 (LRP2), mRNA
3023	15789	28437	1.07	4.0E-90	6806918	NT	Homo sapiens low density lipoprotein-related protein 2 (LRP2), mRNA
4608	17343	29975	7.65	4.0E-90	D87676.1	NT	Homo sapiens DNA for amyloid precursor protein, complete cds
4743	17475	30109	2.17	4.0E-90	AB033070.1	NT	Homo sapiens mRNA for KIAA1244 protein, partial cds
4768	17500	30123	2.33	4.0E-90	M95967.1	NT	Human prohormone converting enzyme (NEC2) gene, exon 8
7751	20447	33570	1.08	3.0E-90	BF516168.1	EST_HUMAN	UI-H-BW1-amy-b-04-0-U1.s1 NCI CGAP_Sub7 Homo sapiens cDNA clone IMAGE:3083839 3'
7751	20447	33571	1.08	3.0E-90	BF516168.1	EST_HUMAN	UI-H-BW1-amy-b-04-0-U1.s1 NCI CGAP_Sub7 Homo sapiens cDNA clone IMAGE:3083839 3'
11630	24227	37551	17.81	3.0E-90	BE563833.1	EST_HUMAN	601335244F1 NIH_MGC_39 Homo sapiens cDNA clone IMAGE:3689147 5'
208	13020	25862	4.71	2.0E-90	BE637913.1	EST_HUMAN	601067378F1 NIH_MGC_10 Homo sapiens cDNA clone IMAGE:3453834 5'
1150	13905	26567	2.87	2.0E-90	5031748	NT	Homo sapiens high-mobility group (nonhistone chromosomal) protein 17 (HMG17), mRNA
1150	13905	26568	2.87	2.0E-90	5031748	NT	Homo sapiens high-mobility group (nonhistone chromosomal) protein 17 (HMG17), mRNA
3826	16577	29209	1.7	2.0E-90	A138213.1	EST_HUMAN	qc54c02.x1 Soares_placenta_8to9weeks_2NbpHP8to9W Homo sapiens cDNA clone IMAGE:1713410 3'
4640	17374	30008	1.05	2.0E-90	AB006627.1	NT	similar to SW:OLF3_MOUSE P23275 OLFACTORY RECEPTOR OR3. ;
4853	17583	30206	7.31	2.0E-90	5728555	NT	Homo sapiens mRNA for KIAA0289 gene, partial cds
5695	18489	31410	4.86	2.0E-90	AW672686.1	EST_HUMAN	Homo sapiens GRB2-related adaptor protein (GRAP) mRNA
							ba49d05.y3 NIH_MGC_10 Homo sapiens cDNA clone IMAGE:2889881 5' similar to TR:O75208 O75208
							HYPOTHETICAL 35.5 KD PROTEIN. ;
9889	22341	35534	4.78	2.0E-90	11427320	NT	Homo sapiens similar to laminin receptor 1 (67kD, ribosomal protein SA) (H. sapiens) (LOC63484), mRNA
9889	22341	35535	4.78	2.0E-90	11427320	NT	Homo sapiens similar to laminin receptor 1 (67kD, ribosomal protein SA) (H. sapiens) (LOC63484), mRNA
9860	22510	35708	1.37	2.0E-90	AU118985.1	EST_HUMAN	AU118985 HEMBA1 Homo sapiens cDNA clone HEMBA1004795 5'

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
9660	22510	35707	1.37	2.0E-90	AU118985.1	EST_HUMAN	AU118985 HEMBA1 Homo sapiens cDNA clone HEMBA1004795 5'
11447	23214	36446	2.8	2.0E-90	11024711	NT	Homo sapiens myosin, heavy polypeptide 4, skeletal muscle (MYH4), mRNA
270	13078	25720	4.55	1.0E-90	4502166	NT	Homo sapiens amyloid beta (A4) precursor protein (protease nexin-II, Alzheimer disease) (APP), mRNA
365	15516	25805	1.36	1.0E-90	AF231920.1	NT	Homo sapiens chromosome 21 unknown mRNA
366	15516	25805	1.43	1.0E-90	AF231920.1	NT	Homo sapiens chromosome 21 unknown mRNA
678	13454	26098	2.32	1.0E-90	AJ237589.1	NT	Homo sapiens mRNA for T-box transcription factor (TBX20 gene), partial
679	13454	26099	2.32	1.0E-90	AJ237589.1	NT	Homo sapiens mRNA for T-box transcription factor (TBX20 gene), partial
713	13487	26137	13.22	1.0E-90	AF284750.1	NT	Homo sapiens ALR-like protein mRNA, partial cds
713	13487	26138	13.22	1.0E-90	AF284750.1	NT	Homo sapiens ALR-like protein mRNA, partial cds
1088	13946		2.47	1.0E-90	4507828	NT	Homo sapiens Kruppel-like factor 7 (ubiquitous) (KLF7), mRNA
1283	14033	26703	5.56	1.0E-90	AF096154.1	NT	Homo sapiens protein phosphatase 2A BR gamma subunit gene, exon 3
1283	14033	26704	5.56	1.0E-90	AF096154.1	NT	Homo sapiens protein phosphatase 2A BR gamma subunit gene, exon 3
1862	14408		1.23	1.0E-90	BE379884.1	EST_HUMAN	601159563F2 NIH_MGC_53 Homo sapiens cDNA clone IMAGE:3511118 5'
1895	14632	27342	3.33	1.0E-90	11420514	NT	Homo sapiens similar to SALL1 (sal (Drosophila)-like (LOC57167), mRNA
2858	15626	28271	6.46	1.0E-90	6005720	NT	Homo sapiens chromosome 8 open reading frame 2 (C8ORF2), mRNA
4369	17126	29758	1.29	1.0E-90	AF167340.1	NT	Homo sapiens soluble interleukin 1 receptor accessory protein (IL1RAP) gene, exon 8, alternative exons 9 and complete cds, alternatively spliced
5589	18385	31295	2.58	1.0E-90	AB014533.1	NT	Homo sapiens mRNA for KIAA0633 protein, partial cds
5746	18538	31460	0.96	1.0E-90	11426910	NT	Homo sapiens KIAA0623 gene product (KIAA0623), mRNA
6473	19240	32240	0.57	1.0E-90	11419406	NT	Homo sapiens cytochrome P450, 51 (lanosterol 14-alpha-demethylase) (CYP51), mRNA
6973	19455	32475	0.66	1.0E-90	U91934.1	NT	Human retina-derived POU-domain factor-1 mRNA, complete cds
7204	19889	32965	0.84	1.0E-90	6006002	NT	Homo sapiens glutamate receptor, ionotropic, N-methyl D-aspartate 2A (GRIN2A) mRNA
7571	20240	33345	2.77	1.0E-90	11426758	NT	Homo sapiens solute carrier family1 (high affinity aspartate/glutamate transporter), member 6 (SLC1A6), mRNA
8720	21412	34555	3.73	1.0E-90	11422086	NT	Homo sapiens brefeldin A-inhibited guanine nucleotide-exchange protein 2 (BIG2), mRNA
9193	21863		0.96	1.0E-90	AF163864.1	NT	Homo sapiens SNCA isoform (SNCA) gene, complete cds, alternatively spliced
9215	21894	35062	1.53	1.0E-90	11422108	NT	Homo sapiens CGI-15 protein (LOC51006), mRNA
9215	21894	35063	1.53	1.0E-90	11422108	NT	Homo sapiens CGI-15 protein (LOC51006), mRNA
10557	23253	36490	1.5	1.0E-90	R25886.1	EST_HUMAN	X644d11.2 Soares infant brain 1N1B Homo sapiens cDNA clone IMAGE:35477 5'
10967	23643	36896	1.76	1.0E-90	J04474.1	NT	Human branched chain alpha-keto acid dehydrogenase mRNA, 3' end
12580	24904	31001	1.49	1.0E-90	AB002059.1	NT	Homo sapiens DNA for Human P2XM, complete cds
12580	24904	31002	1.49	1.0E-90	AB002059.1	NT	Homo sapiens DNA for Human P2XM, complete cds
4172	16912	28542	6	8.0E-91	D12234.1	EST_HUMAN	HUM0005381 Liver HepG2 cell line. Homo sapiens cDNA clone s381 3'

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
1427	14174	28859	1.08	7.0E-91	AF053768.1	NT	Rattus norvegicus brain specific cortactin-binding protein CBP90 mRNA, partial cds
8205	20899	34038	1.8	7.0E-91	11419234	NT	Homo sapiens makorin, ring finger protein, 1 (MKRN1), mRNA
10198	22846	36062	0.68	7.0E-91	AI804151.1	EST_HUMAN	CM-BT043-090296-075 BT043 Homo sapiens cDNA
3467	16223	28877	1.93	5.0E-91	AA702794.1	EST_HUMAN	Z80b04.s1 Soares_fetal_liver_spleen_1NFLS_S1 Homo sapiens cDNA clone IMAGE:448015 3'
4480	17215	29840	11.73	5.0E-91	AU143339.1	EST_HUMAN	AU143339 Y79AA1 Homo sapiens cDNA clone Y79AA1002087 5'
480	17215	29841	11.73	5.0E-91	AU143339.1	EST_HUMAN	AU143339 Y79AA1 Homo sapiens cDNA clone Y79AA1002087 5'
4757	17489	30116	0.97	5.0E-91	7110634	NT	Homo sapiens chromosome 22 open reading frame 5 (C22ORF5), mRNA
4757	17489	30117	0.97	5.0E-91	7110634	NT	Homo sapiens chromosome 22 open reading frame 5 (C22ORF5), mRNA
6519	19285	32289	1.25	5.0E-91	AI879995.1	EST_HUMAN	au49f09.x1 Schneider fetal brain 00004 Homo sapiens cDNA clone IMAGE:2518121 3' similar to SW:ASPG_FLAME Q47898 N4-(BETA-N-ACETYLGLUCOSAMINYL)-L-ASPARAGINASE PRECURSOR;
8105	20799	33931	1.2	5.0E-91	BF314682.1	EST_HUMAN	801901624F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:4130933 5'
8658	21350	34495	1.52	5.0E-91	AV649878.1	EST_HUMAN	AV649878 GLC Homo sapiens cDNA clone GLCBYF08 3'
8658	21350	34496	1.52	5.0E-91	AV649878.1	EST_HUMAN	AV649878 GLC Homo sapiens cDNA clone GLCBYF08 3'
12612	24919		1.74	5.0E-91	AI193566.1	EST_HUMAN	qe70f11.x1 Soares_fetal_Jung_NbHL19W Homo sapiens cDNA clone IMAGE:1744365 3' similar to contains
3197	15960	28811	1.69	4.0E-91	AF156776.1	NT	MIR.b2 MIR MIR repetitive element;
3197	15960	28812	1.69	4.0E-91	AF156776.1	NT	Homo sapiens lysophosphatidic acid acyltransferase-delta (LPAAT-delta) mRNA, complete cds
10848	23530	36775	4.49	4.0E-91	AL163284.2	NT	Homo sapiens chromosome 21 segment HS21C084
12094	24596	31082	1.96	4.0E-91	M77994.1	EST_HUMAN	EST01579 Hippocampus, Striatum (cat. #936205) Homo sapiens cDNA clone HHCMC60 similar to
12094	24596	31127	1.96	4.0E-91	M77994.1	EST_HUMAN	Retrovirus-related gag polyprotein
1613	14360	27049	3.07	3.0E-91	11430193	NT	EST01579 Hippocampus, Striatum (cat. #936205) Homo sapiens cDNA clone HHCMC60 similar to
1613	14360	27050	3.07	3.0E-91	11430193	NT	Retrovirus-related gag polyprotein
3334	16094	28746	1.62	3.0E-91	AL163283.2	NT	Homo sapiens solute carrier family 4, anion exchanger, member 3 (SLC4A3), mRNA
3455	16211	28863	3.39	3.0E-91	AB033104.1	NT	Homo sapiens solute carrier family 4, anion exchanger, member 3 (SLC4A3), mRNA
3455	16211	28864	3.39	3.0E-91	AB033104.1	NT	Homo sapiens chromosome 21 segment HS21C083
3455	16211	28864	3.39	3.0E-91	AB033104.1	NT	Homo sapiens mRNA for KIAA1278 protein, partial cds
3768	16520	29159	1.45	3.0E-91	AF084530.1	NT	Homo sapiens mRNA for KIAA1278 protein, partial cds
4551	17298	28915	3.79	3.0E-91	M30938.1	NT	Homo sapiens cyclin-D binding Myb-like protein mRNA, complete cds
5600	18395	31305	1.27	3.0E-91	11434964	NT	Human Ku (p70/p80) subunit mRNA, complete cds
6212	18987		2.48	3.0E-91	4502740	NT	Homo sapiens epididymal secretory protein (19.5kD) (HE1), mRNA
6488	19255	32296	5.82	3.0E-91	11497611	NT	Homo sapiens cyclin-dependent kinase 6 (CDK6) mRNA
							Homo sapiens gamma-aminobutyric acid (GABA) B receptor, 1 (GABBR1), transcript variant 2, mRNA

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
6488	19255	32257	5.82	3.0E-91	11497611	NT	Homo sapiens gamma-aminobutyric acid (GABA) B receptor, 1 (GABBR1), transcript variant 2, mRNA
7538	20208	33306	4.87	3.0E-91	U86959.1	NT	Human L-type calcium channel beta-1 subunit (CACNLB1) gene, exons 10 and 11
7538	20208	33307	4.97	3.0E-91	U86959.1	NT	Human L-type calcium channel beta-1 subunit (CACNLB1) gene, exons 10 and 11
8689	21361	34508	2.58	3.0E-91	D16494.1	NT	Human mRNA for very low density lipoprotein receptor, complete cds
9188	21858	35023	2.83	3.0E-91	AB011166.1	NT	Homo sapiens mRNA for KIAA0594 protein, partial cds
10803	23486	36723	1.41	3.0E-91	AB032179.2	NT	Homo sapiens EHM2 mRNA, complete cds
11160	23827	37105	1.66	3.0E-91	AB029003.1	NT	Homo sapiens mRNA for KIAA1080 protein, partial cds
11160	23827	37108	1.66	3.0E-91	AB029003.1	NT	Homo sapiens mRNA for KIAA1080 protein, partial cds
12335	24749	31057	2	3.0E-91	AF240786.1	NT	Homo sapiens glutathione S-transferase theta 2 (GSTT2) and glutathione S-transferase theta 1 (GSTT1) genes, complete cds
12667	17898	30489	4.35	3.0E-91	AF169555.1	NT	Homo sapiens beta-ureidopropionase (BUP1) gene, exon 6
12667	17898	30490	4.35	3.0E-91	AF169555.1	NT	Homo sapiens beta-ureidopropionase (BUP1) gene, exon 6
47	12876	25501	5.06	1.0E-91	AL163284.2	NT	Homo sapiens chromosome 21 segment HS21C084
1223	13973	26845	6.31	1.0E-91	AW449746.1	EST_HUMAN	UI-H-BIB-als-d-01-O-JI.st NCI CGAP Sub5 Homo sapiens cDNA clone IMAGE:2735280 3'
5328	18131	30790	0.97	1.0E-91	11494402	NT	Homo sapiens hypodermal protein PRO1855 (PRO1855), mRNA
6743	19577	32610	2.26	1.0E-91	BF348182.1	EST_HUMAN	602022088F1 NCI CGAP_Bm67 Homo sapiens cDNA clone IMAGE:4157804 5'
6743	19577	32611	2.26	1.0E-91	BF348182.1	EST_HUMAN	602022088F1 NCI CGAP_Bm67 Homo sapiens cDNA clone IMAGE:4157804 5'
12245	25340		1.35	1.0E-91	H15212.1	EST_HUMAN	ym30a03.r1 Soares infant brain T1B1 Homo sapiens cDNA clone IMAGE:49587 5'
1219	13970	26639	9.06	9.0E-92	AJ001689.1	NT	Homo sapiens NKG2D gene, exon 10
1219	13970	26640	9.06	9.0E-92	AJ001689.1	NT	Homo sapiens NKG2D gene, exon 10
5120	17838	30454	0.9	9.0E-92	AB020640.1	NT	Homo sapiens mRNA for KIAA0833 protein, partial cds
5376	18176	30867	4.86	9.0E-92	J03007.1	NT	Human Na ⁺ K ⁺ ATPase alpha-subunit mRNA, partial cds
5518	18316	31217	2.83	9.0E-92	11427149	NT	Homo sapiens hypothetical protein FLJ20260 (FLJ20260), mRNA
6362	19132	32127	4.03	9.0E-92	AF310105.1	NT	Homo sapiens NALP1 mRNA, complete cds
7756	20452	33578	7.17	9.0E-92	AJ250566.1	NT	Homo sapiens partial TM4SF2 gene for tetraspanin protein, exon 5
7756	20452	33577	7.17	9.0E-92	AJ250566.1	NT	Homo sapiens partial TM4SF2 gene for tetraspanin protein, exon 5
8272	20966	34107	0.92	9.0E-92	AB040945.1	NT	Homo sapiens mRNA for KIAA1512 protein, partial cds
8272	20966	34108	0.92	9.0E-92	AB040945.1	NT	Homo sapiens mRNA for KIAA1512 protein, partial cds
9174	21844	35010	1.95	9.0E-92	11422086	NT	Homo sapiens brefeldin A-inhibited guanine nucleotide-exchange protein 2 (BIG2), mRNA
11161	23828		1.95	9.0E-92	7706686	NT	Homo sapiens RNB6 (RNB6), mRNA
91	12917	25554	2.25	8.0E-92	W26367.1	EST_HUMAN	2663 Human retina cDNA randomly primed sublibrary Homo sapiens cDNA
279	13086	25728	3.29	8.0E-92	BE386363.1	EST_HUMAN	601273513F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:3614687 5'

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Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descripbar
5041	17760	30374	0.96	8.0E-92	AW157571.1	EST_HUMAN	at83h08.x1 Schneider fetal brain 00004 Homo sapiens cDNA clone IMAGE:2782911 3' similar to
5308	18113	30771	0.65	8.0E-92	AB046820.1	NT	TR:060302 O60302 KIAA0555 PROTEIN. contains element MER22 repetitive element ;
							Homo sapiens mRNA for KIAA1600 protein, partial cds
5411	18210	30918	0.97	8.0E-92	AF264717.1	NT	Homo sapiens FYVE domain-containing dual specificity protein phosphatase FYVE-DSP2 mRNA, complete
6451	19219	32217	1.31	8.0E-92	AJ000979.1	NT	cds
6455	19223	32222	0.92	8.0E-92	AF179428.1	NT	Homo sapiens MCP-4 gene
7980	20885		0.55	8.0E-92	11416961	NT	Homo sapiens DNA polymerase zeta catalytic subunit variant 1 (REV3L) mRNA, complete cds
8324	21017	34152	3.91	8.0E-92	L04193.1	NT	Homo sapiens AIM-1 protein (LOC51151), mRNA
8324	21017	34153	3.91	8.0E-92	L04193.1	NT	Human lens membrane protein (mp19) gene, exon 11
8422	21115	34253	0.58	8.0E-92	11426569	NT	Human lens membrane protein (mp19) gene, exon 11
8860	21651	34801	2.82	8.0E-92	AB014511.1	NT	Homo sapiens transcription termination factor, RNA polymerase II (TTF2), mRNA
8925	22573	35771	1.18	8.0E-92	Y13829.1	NT	Homo sapiens mRNA for KIAA0611 protein, partial cds
							Homo sapiens mRNA for MBNL protein
10707	23397	36636	3.2	8.0E-92	AF074393.1	NT	Homo sapiens nuclear mitogen- and stress-activated protein kinase-1 (MSK1) mRNA, complete cds
11333	24024	37329	1.61	8.0E-92	4503340	NT	Homo sapiens dihydrolipoamide S-succinyltransferase (E2 component of 2-oxo-glutarate complex) (DLST)
23	12851	25466	1.62	7.0E-92	AB031007.1	NT	mRNA
64	12892	25525	1.01	7.0E-92	M60676.1	NT	Homo sapiens DNA, MHC class I region, 7.1 ancestral haplotype
230	15538	25680	0.87	7.0E-92	AB018301.1	NT	Human von Willebrand factor pseudogene corresponding to exons 23 through 34
230	15538	25681	0.87	7.0E-92	AB018301.1	NT	Homo sapiens mRNA for KIAA0758 protein, partial cds
577	13357		1.34	7.0E-92	AF007822.1	NT	Homo sapiens mRNA for KIAA0758 protein, partial cds
1257	14008	26675	1.99	7.0E-92	4502384	NT	Homo sapiens cytoplasmic Seprase truncated isoform mRNA, complete cds
2184	14913	27645	2.27	7.0E-92	5031570	NT	Homo sapiens B-cell CLL/lymphoma 7b (BCL7B) mRNA
2184	14913	27646	2.27	7.0E-92	5031570	NT	Homo sapiens ARP2 (actin-related protein 2, yeast) homolog (ACTR2), mRNA
2568	15282	28020	1.46	7.0E-92	AF167706.1	NT	Homo sapiens ARP2 (actin-related protein 2, yeast) homolog (ACTR2), mRNA
2728	15435	28171	2.2	7.0E-92	6005738	NT	Homo sapiens cysine-rich repeat-containing protein S62 precursor, mRNA, complete cds
2757	15482	28205	1.23	7.0E-92	AB031007.1	NT	Homo sapiens NRAS-related gene (D1S156E), mRNA
3340	17877	28750	1.06	7.0E-92	4507500	NT	Homo sapiens DNA, MHC class I region, 7.1 ancestral haplotype
3340	17877	28751	1.06	7.0E-92	4507500	NT	Homo sapiens T-cell lymphoma invasion and metastasis 1 (TIAM1) mRNA
							Homo sapiens T-cell lymphoma invasion and metastasis 1 (TIAM1) mRNA
4547	17282	29912	2.59	7.0E-92	S71824.1	NT	N-CAM=145 kda neural cell adhesion molecule [human, small cell lung cancer cell line OS2-R, mRNA, 2960]
4547	17282	29913	2.59	7.0E-92	S71824.1	NT	nt
							N-CAM=145 kda neural cell adhesion molecule [human, small cell lung cancer cell line OS2-R, mRNA, 2960]
							nt

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
4944	17671	30280	0.98	7.0E-92	AL183281.2	NT	Homo sapiens chromosome 21 segment HS21C081
5180	17989	30504	6.05	7.0E-92	AA446206.1	EST_HUMAN	zw66d12.f1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:781175 5'
1582	14328		1.29	5.0E-92	BE390882.1	EST_HUMAN	601283012F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3605018 5'
2768	15473	28215	1.6	3.0E-92	BE909714.1	EST_HUMAN	601501242F1 NIH_MGC_70 Homo sapiens cDNA clone IMAGE:3602839 5'
5788	18577	31508	2.6	3.0E-92	AA378336.1	EST_HUMAN	EST91020 Synovial sarcoma Homo sapiens cDNA 5' end similar to ribosomal protein S13
10664	23355	36594	2.72	3.0E-92	X15804.1	NT	Human mRNA for alpha-actinin
10664	23355	36595	2.72	3.0E-92	X15804.1	NT	Human mRNA for alpha-actinin
24	12852	25487	1.66	2.0E-92	4501888	NT	Homo sapiens activin A receptor, type IIB (ACVR2B) mRNA
174	12986	25625	3.57	2.0E-92	11422946	NT	Homo sapiens hypothetical protein dJ462023.2 (DJ462023.2), mRNA
174	12986	25628	3.57	2.0E-92	11422946	NT	Homo sapiens hypothetical protein dJ462023.2 (DJ462023.2), mRNA
732	13506	26162	1.33	2.0E-92	BE289180.1	EST_HUMAN	601118337F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:3028304 5'
732	13506	26163	1.33	2.0E-92	BE289180.1	EST_HUMAN	601118337F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:3028304 5'
1709	14452		2.22	2.0E-92	S78653.1	NT	trng-mas-related [human, Genomic, 2418 nt]
1929	14665	27378	2.36	2.0E-92	A1818119.1	EST_HUMAN	wk27d07.x1 NCI_CGAP_Bm25 Homo sapiens cDNA clone IMAGE:2413549 3' similar to TR:Q12844
1929	14665	27379	2.36	2.0E-92	A1818119.1	EST_HUMAN	Q12844 BREAKPOINT CLUSTER REGION PROTEIN ;
2041	14776	27504	5.58	2.0E-92	4506860	NT	wk27d07.x1 NCI_CGAP_Bm25 Homo sapiens cDNA clone IMAGE:2413549 3' similar to TR:Q12844
2684	15374	28113	19.2	2.0E-92	6912457	NT	Q12844 BREAKPOINT CLUSTER REGION PROTEIN ;
3600	16353	28992	2.81	2.0E-92	AF231919.1	NT	Homo sapiens syndecan 4 (amphiglycan, ryadocan) (SDC4) mRNA
3600	16353	28993	2.81	2.0E-92	AF231919.1	NT	Homo sapiens calcineurin binding protein 1 (KIAA0330), mRNA
3600	16353	28993	2.81	2.0E-92	AF231919.1	NT	Homo sapiens chromosome 21 unknown mRNA
3600	16353	28993	2.81	2.0E-92	AF231919.1	NT	Homo sapiens chromosome 21 unknown mRNA
3674	16427	29068	5.57	2.0E-92	5803180	NT	Homo sapiens stress-induced-phosphoprotein 1 (Hsp70/Hsp90-organizing protein) (STIP1), mRNA
4266	16997	29828	1.23	2.0E-92	M10978.1	NT	Human endogenous retroviral DNA (4-1), complete retroviral segment
4936	17684		2.51	2.0E-92	AL040437.1	EST_HUMAN	DKFZp434C0414.1_1 434 (synonym: htss3) Homo sapiens cDNA clone DKFZp434C0414 5'
5873	18468	31383	0.84	2.0E-92	AF016535.1	NT	Homo sapiens P-glycoprotein (mdr1) mRNA, complete cds
6209	18984		0.6	2.0E-92	4504756	NT	Homo sapiens integrin, alpha L (antigen CD11A (p180), lymphocyte function-associated antigen 1; alpha polypeptide) (ITGAL) mRNA
6517	19282	32285	3.03	2.0E-92	AB028991.1	NT	Homo sapiens mRNA for KIAA1068 protein, partial cds
7364	20045		0.81	2.0E-92	U67780.1	NT	Human NPY Y1-like receptor pseudogene mRNA, complete cds
7387	20045		0.78	2.0E-92	U67780.1	NT	Human NPY Y1-like receptor pseudogene mRNA, complete cds
8754	21446	34594	1.89	2.0E-92	AW340174.1	EST_HUMAN	hd02h02.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2806371 3' similar to TR:O0271
10659	23350	36587	4.93	2.0E-92	11434900	NT	O02711 PRO-POL-DUTPASE POLYPROTEIN ;
10659	23350	36587	4.93	2.0E-92	11434900	NT	Homo sapiens thyroid stimulating hormone receptor (TSHR), mRNA

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Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
10930	23610	38859	1.48	2.0E-92	11434759	NT	Homo sapiens zinc finger protein 198 (ZNF198), mRNA
10978	23663	38906	2.54	2.0E-92	5803103	NT	Homo sapiens male-specific lethal-3 (Drosophila)-like 1 (MSL3L1), mRNA
12439	24809	31046	2.69	2.0E-92	AB028016.1	NT	Homo sapiens mRNA for KIAA1093 protein, partial cds
12697	15374	28113	2.51	2.0E-92	6812457	NT	Homo sapiens calcineurin binding protein 1 (KIAA0330), mRNA
1842	14580	27294	1.13	1.0E-92	R78078.1	EST_HUMAN	y80e08.r1 Soares placenta Nb2HP Homo sapiens cDNA clone IMAGE:145574 5'
2066	14798	27295	1.13	1.0E-92	R78078.1	EST_HUMAN	y80e08.r1 Soares placenta Nb2HP Homo sapiens cDNA clone IMAGE:145574 5'
8145	20839	33971	1.29	1.0E-92	BE439925.1	EST_HUMAN	Homo sapiens ribosomal protein, large, P1 (RPLP1) mRNA
							HTM1-288F HTM1 Homo sapiens cDNA
9062	21751	34910	3.82	1.0E-92	A1380356.1	EST_HUMAN	ig01b02.x1 NCI_CGAP_CLL1 Homo sapiens cDNA clone IMAGE:2107467 3' similar to SW:PTNF_HUMAN Q16825 PROTEIN-TYROSINE PHOSPHATASE D1 ; contains Alu repetitive element; contains element MER17 repetitive element ;
9062	21751	34911	3.82	1.0E-92	A1380356.1	EST_HUMAN	ig01b02.x1 NCI_CGAP_CLL1 Homo sapiens cDNA clone IMAGE:2107467 3' similar to SW:PTNF_HUMAN Q16825 PROTEIN-TYROSINE PHOSPHATASE D1 ; contains Alu repetitive element; contains element MER17 repetitive element ;
2023	14758	27487	3	9.0E-93	AU121681.1	EST_HUMAN	AU121681 MAMMA1 Homo sapiens cDNA clone MAMMA1000738 5'
2035	14770		5.48	9.0E-93	AA316723.1	EST_HUMAN	EST188414 HCC cell line (metastasis to liver in mouse) II Homo sapiens cDNA 5' end similar to ribosomal protein L29
2653	15363		1.45	9.0E-93	AF223391.1	NT	Homo sapiens calcium channel alpha1E subunit (CACNA1E) gene, exons 7-49, and partial cds, alternatively spliced
3602	16355	28995	1.11	9.0E-93	BE388571.1	EST_HUMAN	601281867F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3603832 5'
11645	24242		9.71	9.0E-93	11418526	NT	Homo sapiens ribosomal protein L10a (RPL10A), mRNA
6351	19121	32112	0.58	8.0E-93	AW014042.1	EST_HUMAN	U1H-B10-aah-h-06-0-U1.st NCI_CGAP_Sub1 Homo sapiens cDNA clone IMAGE:2709371 3'
6351	19121	32113	0.58	8.0E-93	AW014042.1	EST_HUMAN	U1H-B10-aah-h-06-0-U1.st NCI_CGAP_Sub1 Homo sapiens cDNA clone IMAGE:2709371 3'
6496	19262	32263	2.51	8.0E-93	BF036364.1	EST_HUMAN	601490521F1 NIH_MGC_66 Homo sapiens cDNA clone IMAGE:3863908 5'
239	13048	25687	9.92	7.0E-93	AF231919.1	NT	Homo sapiens chromosome 21 unknown mRNA
3073	15839	28482	0.94	6.0E-93	11526178	NT	Homo sapiens T-cell lymphoma invasion and metastasis 1 (TIAM1), mRNA
6581	19344	32358	1.02	6.0E-93	AB033093.1	NT	Homo sapiens mRNA for KIAA1287 protein, partial cds
6817	19478	32501	1.12	6.0E-93	AF095771.1	NT	Homo sapiens PTH-responsive osteosarcoma B1 protein (B1) mRNA, complete cds
1359	14107	28782	3.51	5.0E-93	AB014511.1	NT	Homo sapiens mRNA for KIAA0811 protein, partial cds
1386	14133	28607	7.28	5.0E-93	A1674184.1	EST_HUMAN	wc09c08.x1 NCI_CGAP_Pt28 Homo sapiens cDNA clone IMAGE:2314670 3'
1386	14133	28608	7.28	5.0E-93	A1674184.1	EST_HUMAN	wc09c08.x1 NCI_CGAP_Pt28 Homo sapiens cDNA clone IMAGE:2314670 3'
3227	15990	28643	2.98	5.0E-93	X04201.1	NT	Human skeletal muscle 1.3 kb mRNA for tropomyosin
5710	18503	31425	1.01	5.0E-93	M22878.1	NT	Human somatic cytochrome c (HC1) processed pseudogene, complete cds

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
6018	18799		1.02	5.0E-93	AF045555.1	NT	Homo sapiens wbscr1 (WBSOCR1) and wbscr5 (WBSOCR5) genes, complete cds, alternatively spliced and replication factor C subunit 2 (RFC2) gene, complete cds
7814	20280	33398	3.6	5.0E-93	AF067136.1	NT	Homo sapiens protein phosphatase-1 regulatory subunit 7 (PPP1R7) gene, exon 11, complete cds and alternatively spliced product
8503	21195	34338	1	5.0E-93	4557526	NT	Homo sapiens discs, large (Drosophila) homolog 2 (chapsyn-110) (DLG2) mRNA
8503	21195	34339	1	5.0E-93	4557526	NT	Homo sapiens discs, large (Drosophila) homolog 2 (chapsyn-110) (DLG2) mRNA
9523	22176	35360	2.16	5.0E-93	AF274863.1	NT	Homo sapiens secretory pathway component Sec31B-1 mRNA, alternatively spliced, complete cds
9707	22358	35554	1.25	5.0E-93	5032156	NT	Homo sapiens TAR (HIV) RNA-binding protein 1 (TARBP1) mRNA
9870	22618	35821	1.9	5.0E-93	AF069313.2	NT	Homo sapiens WSB1 protein (WSB1) mRNA, complete cds
10727	23415	36656	2.26	5.0E-93	11439599	NT	Homo sapiens nucleobindin 2 (NUCB2) mRNA
12943	26052	30959	2.15	5.0E-93	11417877	NT	Homo sapiens gamma-glutamyltransferase 1 (GGT1) mRNA
12805	26052	30959	1.44	5.0E-93	11417877	NT	Homo sapiens gamma-glutamyltransferase 1 (GGT1) mRNA
86	12912		6.52	4.0E-93	AA459933.1	EST_HUMAN	z50e09.s1 Soares tests, NHT Homo sapiens cDNA clone IMAGE:795688 3' similar to SW:CLPA_RAT
432	13218	25863	1.39	4.0E-93	4557879	NT	P37397 CALPONIN, ACIDIC ISOFORM;
432	13218	25864	1.39	4.0E-93	4557879	NT	Homo sapiens interferon gamma receptor 1 (IFNGR1) mRNA
755	13527	26186	1.67	4.0E-93	7657454	NT	Homo sapiens pascadillo (zebrafish) homolog 1, containing BRCT domain (PES1), mRNA
755	13527	26187	1.67	4.0E-93	7657454	NT	Homo sapiens pascadillo (zebrafish) homolog 1, containing BRCT domain (PES1), mRNA
1160	13814	26577	1.53	4.0E-93	8923658	NT	Homo sapiens hypothetical protein FLJ20731 (FLJ20731), mRNA
1970	14706	27424	4.3	4.0E-93	AF047677.1	NT	Homo sapiens dystrophin (DMD) gene, deletion breakpoints 1-3 in intron 5
2241	14969	27707	0.98	4.0E-93	AF157476.1	NT	Homo sapiens DNA polymerase zeta catalytic subunit (REV3) mRNA, complete cds
2397	15118	27855	1.65	4.0E-93	AL163301.2	NT	Homo sapiens chromosome 21 segment HS21C101
3553	16308	28958	0.73	4.0E-93	7705396	NT	Homo sapiens tumor antigen SLP-9p (HCC8), mRNA
4026	16771	29403	1.67	4.0E-93	4504654	NT	Homo sapiens interleukin 18 receptor 1 (IL18R1) mRNA
5557	18354	31264	4.9	4.0E-93	T46864.1	EST_HUMAN	y694c12.1 Stratagene liver (#937224) Homo sapiens cDNA clone IMAGE:78838 5' similar to similar to SP:A44391 A44391 SERUM RESPONSE ELEMENT-BINDING PROTEIN SRE-ZBP - HUMAN
11078	23748	37023	6.17	4.0E-93	AV692051.1	EST_HUMAN	AV692051 GK6 Homo sapiens cDNA clone GKDRF07 5'
3643	16396	28035	7.35	3.0E-93	BF690630.1	EST_HUMAN	602246554F1 NIH_MGC_62 Homo sapiens cDNA clone IMAGE:4332036 5'
3643	16396	28036	7.35	3.0E-93	BF690630.1	EST_HUMAN	602246554F1 NIH_MGC_62 Homo sapiens cDNA clone IMAGE:4332036 5'
4210	16951		1.31	3.0E-93	AF225896.1	NT	Homo sapiens tensin mRNA, complete cds
5697	18491	31412	0.79	3.0E-93	AI553853.1	EST_HUMAN	h29g03.x1 NCI_CGAP_Brn25 Homo sapiens cDNA clone IMAGE:2160076 3'
5697	18491	31413	0.79	3.0E-93	AI553853.1	EST_HUMAN	h29g03.x1 NCI_CGAP_Brn25 Homo sapiens cDNA clone IMAGE:2160076 3'

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
6468	19235	32236	1.21	3.0E-93	11426182	NT	Homo sapiens GCNE (general control of amino-acid synthesis, yeast, homolog)-like 2 (GCNE(L2), mRNA
10703	23394	36631	4.27	3.0E-93	A1824829.1	EST_HUMAN	w602d05.x1 NCI_CGAP_G06 Homo sapiens cDNA clone IMAGE:2304489 3'
185	12998	25637	7.51	2.0E-93	AB015610.1	NT	Chlorocebus aethiops mRNA for ribosomal protein S4X, complete cds
185	12998	25638	7.51	2.0E-93	AB015610.1	NT	Chlorocebus aethiops mRNA for ribosomal protein S4X, complete cds
315	13119	25758	9.36	2.0E-93	AL163285.2	NT	Homo sapiens chromosome 21 segment HS21C085
316	13119	25758	9.48	2.0E-93	AL163285.2	NT	Homo sapiens chromosome 21 segment HS21C085
1610	14357	27046	1.33	2.0E-93	AF225896.1	NT	Homo sapiens lensin mRNA, complete cds
2126	14857	27587	1.33	2.0E-93	U40763.1	NT	Human Cdk-associated RS cyclophilin CARS-Cyp mRNA, complete cds
2490	15207	27849	1.66	2.0E-93	BE252982.1	EST_HUMAN	601117586F1 NIH_MGC_16 Homo sapiens cDNA clone IMAGE:3358220 5'
5332	18135	30794	5.42	2.0E-93	AW964385.1	EST_HUMAN	EST978458 MAGE resequencing, MAGE Homo sapiens cDNA
5342	18145	30824	0.66	2.0E-93	4758163	NT	Homo sapiens deafness, autosomal dominant 5 (DFNA5), mRNA
5455	18254		1.04	2.0E-93	BF351459.1	EST_HUMAN	QV8-HT0513-290300-126-H04 HT0513 Homo sapiens cDNA
5550	18347	31256	1.13	2.0E-93	11430039	NT	Homo sapiens hypothetical protein (LOC51318), mRNA
5595	18392	31270	0.65	2.0E-93	U74313.1	EST_HUMAN	HSU74313 Human chromosome 14 Homo sapiens cDNA clone 1-86
6594	19347		1.1	2.0E-93	AW502002.1	EST_HUMAN	U1-HF-BN0-eks-g-09-0-U1-r1 NIH_MGC_50 Homo sapiens cDNA clone IMAGE:3078329 5'
11014	23686	36946	1.27	2.0E-93	AV721846.1	EST_HUMAN	AV721846 HTB Homo sapiens cDNA clone HTBAUB04 5'
11014	23686	36947	1.27	2.0E-93	AV721846.1	EST_HUMAN	AV721846 HTB Homo sapiens cDNA clone HTBAUB04 5'
12233	24886		2.64	2.0E-93	AA126735.1	EST_HUMAN	2129c10.s1 Soares_pregnant_uterus_NbHPU Homo sapiens cDNA clone IMAGE:503348 3'
12314	24736		2.17	2.0E-93	L41826.1	NT	Homo sapiens CYP17 gene, 5' end
12571	24999		10.79	2.0E-93	BF036327.1	EST_HUMAN	601458531F1 NIH_MGC_66 Homo sapiens cDNA clone IMAGE:3862086 5'
101	12927	25664	2.28	1.0E-93	AF238997.1	NT	Homo sapiens CTR1 pseudogene
101	12927	25665	2.28	1.0E-93	AF238997.1	NT	Homo sapiens CTR1 pseudogene
505	13289	25923	4.25	1.0E-93	7657016	NT	Homo sapiens hypothetical protein (DJ32BE19 C1.1), mRNA
586	13368	25994	4.57	1.0E-93	A1146755.1	EST_HUMAN	0y84b08.x1 NCI_CGAP_G11 Homo sapiens cDNA clone IMAGE:1672503 3' similar to TR:Q62384 Q62384
852	13622	26292	8.91	1.0E-93	D87675.1	NT	ZINC FINGER PROTEIN.
1144	13899	26560	2.8	1.0E-93	4503872	NT	Homo sapiens DNA for amyloid precursor protein, complete cds
1215	13965	26632	7.65	1.0E-93	8923270	NT	Homo sapiens glutamate decarboxylase 1 (brain, 67kD) (GAD1), transcript variant GAD67, mRNA
1215	13965	26633	7.65	1.0E-93	8923270	NT	Homo sapiens hypothetical protein FLJ20291 (FLJ20291), mRNA
1322	14071	26744	1.5	1.0E-93	AB046783.1	NT	Homo sapiens hypothetical protein FLJ20291 (FLJ20291), mRNA
1324	14073	26746	0.99	1.0E-93	AF167706.1	NT	Homo sapiens mRNA for KIAA1563 protein, partial cds
2337	15061	27798	1.33	1.0E-93	AF231981.1	NT	Homo sapiens cysteine-rich repeat-containing protein S62 precursor, mRNA, complete cds
							Homo sapiens long chain polyunsaturated fatty acid elongation enzyme (HELO1) mRNA, complete cds

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Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
2486	15184	27824	1.7	1.0E-93	AF055096.1	NT	Homo sapiens MHC class 1 region
2511	15228		0.96	1.0E-93	AL137200.1	NT	Novel human gene mapping to chromosome 1
2825	14022	26689	1.47	1.0E-93	BE297369.1	EST_HUMAN	601177886F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:3632965 5'
2825	14022	26680	1.47	1.0E-93	BE297369.1	EST_HUMAN	601177886F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:3632965 5'
2834	15700	28349	7.48	1.0E-93	D87675.1	NT	Homo sapiens DNA for amyloid precursor protein, complete cds
3210	15973		1.27	1.0E-93	AF231981.1	NT	Homo sapiens long chain polyunsaturated fatty acid elongation enzyme (HELO1) mRNA, complete cds
4395	17132	28763	2.6	1.0E-93	AL163284.2	NT	Homo sapiens chromosome 21 segment HS21C084
5479	18278	31173	2.38	1.0E-93	U78509.1	NT	Homo sapiens glucocorticoid receptor (GRL) gene, intron D, exon 5, and intron E
5479	18278	31174	2.38	1.0E-93	U78509.1	NT	Homo sapiens glucocorticoid receptor (GRL) gene, intron D, exon 5, and intron E
5678	18472	31389	0.96	1.0E-93	AF227138.1	NT	Homo sapiens candidate taste receptor T2R14 gene, complete cds
5825	18614	31546	10.32	1.0E-93	4557792	NT	Homo sapiens neurofibromin 1 (neurofibromatosis, von Recklinghausen disease, Watson disease) (NF1) mRNA
6104	18882	31850	1.4	1.0E-93	7682241	NT	Homo sapiens KIAA0672 gene product (KIAA0672), mRNA
6694	19611	32850	2.01	1.0E-93	11431590	NT	Homo sapiens protein kinase C, beta 1 (PRKCB1), mRNA
7150	19837	32907	3.49	1.0E-93	D42072.1	NT	Human mRNA for NF1 N-isoform-exon11, complete cds
8158	20852	33984	2.54	1.0E-93	AB037832.1	NT	Homo sapiens mRNA for KIAA1411 protein, partial cds
8441	21133	34259	1.2	1.0E-93	Y10183.1	NT	H. sapiens mRNA for MEMD protein
8547	21239	34382	1.38	1.0E-93	AF182032.1	NT	Homo sapiens protein kinase inhibitor gamma (PKIG) mRNA, complete cds
9352	20423	33542	1.78	1.0E-93	AB040918.1	NT	Homo sapiens mRNA for KIAA1485 protein, partial cds
9356	20427	33546	1.26	1.0E-93	AF091395.1	NT	Homo sapiens Trio isoform mRNA, complete cds
9488	22141	35319	8.29	1.0E-93	X13474.1	NT	Human PreA4 gene for Alzheimer's disease A4 amyloid protein precursor (exon 9)
9488	22141	35320	8.29	1.0E-93	X13474.1	NT	Human PreA4 gene for Alzheimer's disease A4 amyloid protein precursor (exon 9)
9625	22278	35467	0.79	1.0E-93	AL049801.1	NT	Novel human gene mapping to chromosome 13, similar to rat RhoGAP
10045	22893	35910	0.62	1.0E-93	11433646	NT	Homo sapiens ryanodine receptor 3 (RyR3), mRNA
12487	24846		1.84	1.0E-93	AJ230125.1	NT	Homo sapiens GGT1 gene, exon 1
12566	24896		2.64	1.0E-93	11417856	NT	Homo sapiens glutathione S-transferase theta 2 (GSTT2), mRNA
12739	25391		1.49	1.0E-93	AF240786.1	NT	Homo sapiens glutathione S-transferase theta 2 (GSTT2) and glutathione S-transferase theta 1 (GSTT1) genes, complete cds
10492	23138		1.03	8.0E-94	AL163209.2	NT	Homo sapiens chromosome 21 segment HS21C009
3944	16594	29333	1.63	6.0E-94	AF142482.1	NT	Homo sapiens transcription enhancer factor-5 mRNA, complete cds
5283	18088	30747	4.23	5.0E-94	AB014512.1	NT	Homo sapiens mRNA for KIAA0612 protein, partial cds
5283	18088	30748	4.23	5.0E-94	AB014512.1	NT	Homo sapiens mRNA for KIAA0612 protein, partial cds
5957	18739	31688	4.22	5.0E-94	AA722434.1	EST_HUMAN	zg87g06.s1 Soares_fetal_heart_NbH19W Homo sapiens cDNA clone IMAGE:409594 3'

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
6910	19648	32693	1.29	5.0E-94	AI015800.1	EST_HUMAN	cd83d05.s1 Soares_tadl_fetus_Nb2HF8_9w Homo sapiens cDNA clone IMAGE:1623369 3'
8537	21229	34371	1.11	5.0E-94	BF529115.1	EST_HUMAN	602042163F1 NCI CGAP_Brm67 Homo sapiens cDNA clone IMAGE:4180023 5'
12209	25394	30619	9.99	5.0E-94	T89398.1	EST_HUMAN	yc88b04.s1 Soares fetal liver spleen 1NPLS Homo sapiens cDNA clone IMAGE:116239 3'
12756	25017		1.5	5.0E-94	D25217.2	NT	Homo sapiens mRNA for KIAA0027 protein, partial cds
12761	25021		1.86	5.0E-94	958724	NT	Homo sapiens cleavage and polyadenylation specific factor 1, 160kD subunit (CPSF1), mRNA
1834	14573		2.84	4.0E-94	L05094.1	NT	Homo sapiens ribosomal protein L27 mRNA, complete cds
2862	15372	28111	0.92	4.0E-94	4506008	NT	Homo sapiens protein phosphatase 1, regulatory subunit 10 (PPP1R10) mRNA
3661	16414	28053	1.38	4.0E-94	AW197851.1	EST_HUMAN	xn89f12.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2701679 3'
3661	18414	29054	1.38	4.0E-94	AW197851.1	EST_HUMAN	xn89f12.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2701679 3'
4669	17403	30038	2.87	4.0E-94	AI591312.1	EST_HUMAN	hw11f10.x1 NCI CGAP_Brm52 Homo sapiens cDNA clone IMAGE:2259403 3' similar to Tr:Q15265 Q15265 PROTEIN TYROSINE PHOSPHATASE ;
6376	19145	32143	1.82	4.0E-94	11440870	NT	Homo sapiens solute carrier family 22 (organic cation transporter), member 1-like (SLC22A1L), mRNA
6376	19145	32144	1.82	4.0E-94	11440870	NT	Homo sapiens solute carrier family 22 (organic cation transporter), member 1-like (SLC22A1L), mRNA
6812	19473		1.18	4.0E-94	L27386.1	NT	Homo sapiens huntingtin (HD) gene, exon 37
11431	23188	36429	1.5	4.0E-94	11645792	NT	Homo sapiens hypothetical protein FLJ12455 (FLJ12455), mRNA
597	13375	26005	1.44	3.0E-94	AB022785.1	NT	Homo sapiens ASH2L gene, complete cds, similar to Drosophila ash2 gene
704	13479	26127	0.88	3.0E-94	4502506	NT	Homo sapiens complement component 5 (C5) mRNA
1733	14475	27173	1.19	3.0E-94	AF167706.1	NT	Homo sapiens cysteine-rich repeat-containing protein S52 precursor, mRNA, complete cds
1733	14475	27174	1.19	3.0E-94	AF167706.1	NT	Homo sapiens cysteine-rich repeat-containing protein S52 precursor, mRNA, complete cds
1765	14507	27208	2.61	3.0E-94	4557556	NT	Homo sapiens E1A binding protein p300 (EP300) mRNA
2073	14805	27534	1.27	3.0E-94	11427779	NT	Homo sapiens hepatic leukemia factor (HLF), mRNA
2073	14805	27535	1.27	3.0E-94	11427779	NT	Homo sapiens hepatic leukemia factor (HLF), mRNA
4166	16908		0.83	3.0E-94	AA464805.1	EST_HUMAN	zw63g08.r1 Soares_tadl_fetus_Nb2HF8_9w Homo sapiens cDNA clone IMAGE:774782 5'
5595	18390	31301	3.41	3.0E-94	11496268	NT	Homo sapiens zinc finger protein 277 (ZNF277), mRNA
8059	18839	31800	1.33	3.0E-94	AB011536.1	NT	Homo sapiens mRNA for MEGF2, partial cds
6360	19130	32125	4	3.0E-94	11526228	NT	Homo sapiens chromosome 21 open reading frame 18 (C21ORF18), mRNA
7696	20359	33473	1.7	3.0E-94	4826863	NT	Homo sapiens neuronal cell adhesion molecule (NRCAM) mRNA
8098	20792	33923	1.18	3.0E-94	AF152309.1	NT	Homo sapiens protocadherin alpha 13 (PCDH-alpha13) mRNA, complete cds
8486	21178	34322	4.36	3.0E-94	AB014579.1	NT	Homo sapiens mRNA for KIAA0679 protein, partial cds
9492	22145	35326	5.23	3.0E-94	AF087942.1	NT	Homo sapiens glycogenin-1L mRNA, complete cds
11043	23713	36883	3.26	3.0E-94	4757821	NT	Homo sapiens axonal transport of synaptic vesicles (ATSV) mRNA
11679	24274	37596	1.94	3.0E-94	U26711.1	NT	Human cbl-b truncated form 1 lacking leucine zipper mRNA, complete cds

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Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
9653	22305	35501	0.7	2.0E-04	AI910393.1	EST_HUMAN	wi30h11.x1 NCI CGAP_Co16 Homo sapiens cDNA clone IMAGE:2391813 3'
9653	22305	35502	0.7	2.0E-04	AI910393.1	EST_HUMAN	wi30h11.x1 NCI CGAP_Co16 Homo sapiens cDNA clone IMAGE:2391813 3'
144	12959	25601	1.94	1.0E-04	BE295714.1	EST_HUMAN	601175762F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:3531038 5'
3086	15851	28492	2.07	1.0E-04	BE253433.1	EST_HUMAN	601111696F1 NIH_MGC_16 Homo sapiens cDNA clone IMAGE:3352559 5'
3086	15851	28493	2.07	1.0E-04	BE253433.1	EST_HUMAN	601111696F1 NIH_MGC_16 Homo sapiens cDNA clone IMAGE:3352559 5'
4328	17065	29694	1.7	1.0E-04	9506692	NT	Homo sapiens hypothetical protein (FLJ20746), mRNA
5982	18763	31727	0.64	1.0E-04	AE000269.1	NT	Escherichia coli K-12 MG1655 section 159 of 400 of the complete genome
6173	18950	31922	0.73	1.0E-04	AL040518.1	EST_HUMAN	DKFZp434G0314_r1 434 (synonym: htes3) Homo sapiens cDNA clone DKFZp434G0314 5'
6182	18959	31933	0.72	1.0E-04	H08270.1	EST_HUMAN	y87102.r1 Soares infant brain 1N1B Homo sapiens cDNA clone IMAGE:45053 5'
6426	19194	32190	0.58	1.0E-04	AV725992.1	EST_HUMAN	AV725992 HTC Homo sapiens cDNA clone HTCBF05 5'
8012	20707	33836	0.63	1.0E-04	AL163204.2	NT	Homo sapiens chromosome 21 segment HS21C004
8012	20707	33837	0.63	1.0E-04	AL163204.2	NT	Homo sapiens chromosome 21 segment HS21C004
9155	21886	35054	2.76	1.0E-04	11428710	NT	Homo sapiens paired box gene 5 (B-cell lineage specific activator protein) (PAX5), mRNA
9687	22339	35533	2.04	1.0E-04	BE780478.1	EST_HUMAN	601468748F1 NIH_MGC_67 Homo sapiens cDNA clone IMAGE:3872099 5'
11000	23673	36929	3.08	1.0E-04	U65590.1	NT	Homo sapiens IL-1 receptor antagonist IL-1Ra (IL-1RN) gene, alternatively spliced forms, complete cds
11288	23949	37245	2.82	1.0E-04	AI272244.1	EST_HUMAN	ap22e02.x1 Schiller oligodendrogloma Homo sapiens cDNA clone IMAGE:1956122 3' similar to TR:Q62845
11754	24345	37675	1.72	1.0E-04	11418871	NT	Q62845 NEURAL CELL ADHESION PROTEIN BIG-2 PRECURSOR, ;
12330	12959	25601	1.45	1.0E-04	BE295714.1	EST_HUMAN	Homo sapiens KIAA0184 gene product (KIAA0184), mRNA
12608	12959	25601	1.51	1.0E-04	BE295714.1	EST_HUMAN	601175762F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:3531038 5'
1459	14206	26892	1.93	9.0E-05	AF027302.1	NT	601175762F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:3531038 5'
3153	15916	28561	1.45	9.0E-05	7662027	NT	Homo sapiens TNF-alpha stimulated ABC protein (ABC50) mRNA, complete cds
3153	15916	28562	1.45	9.0E-05	7662027	NT	Homo sapiens KIAA0255 gene product (KIAA0255), mRNA
5320	18123	30781	1.33	9.0E-05	X82569.1	NT	Homo sapiens KIAA0255 gene product (KIAA0255), mRNA
5320	18123	30782	1.33	9.0E-05	X82569.1	NT	M.musculus glyt1 gene (exons 1c and 2)
8150	20844	33974	1.77	9.0E-05	AF274753.1	NT	M.musculus glyt1 gene (exons 1c and 2)
4499	17235	29866	3.18	8.0E-05	AI7000998.1	EST_HUMAN	Homo sapiens progressive ankylosis-like protein (ANK) mRNA, complete cds
4499	17235	29867	3.18	8.0E-05	AI7000998.1	EST_HUMAN	we09e04.x1 NCI CGAP_Lu24 Homo sapiens cDNA clone IMAGE:2340606 3' similar to gb:K00558
6849	19549	32579	0.76	8.0E-05	11419376	NT	TUBULIN ALPHA-1 CHAIN (HUMAN);
7141	19828	32897	1.76	8.0E-05	11426529	NT	we09e04.x1 NCI CGAP_Lu24 Homo sapiens cDNA clone IMAGE:2340606 3' similar to gb:K00558
7141	19828	32898	1.76	8.0E-05	11426529	NT	TUBULIN ALPHA-1 CHAIN (HUMAN);
							Homo sapiens KIAA0193 gene product (KIAA0193), mRNA
							Homo sapiens proteasome (prosome, macropain) 26S subunit, non-ATPase, 11 (PSMD11), mRNA
							Homo sapiens proteasome (prosome, macropain) 26S subunit, non-ATPase, 11 (PSMD11), mRNA

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
8097	20791	33922	1.87	8.0E-95	AF032897.1	NT	Homo sapiens potassium channel subunit (HERG-3) mRNA, complete cds
9265	22019	35187	2	8.0E-95	11420944	NT	Homo sapiens KIAA0255 gene product (KIAA0255), mRNA
9265	22019	35188	2	8.0E-95	11420944	NT	Homo sapiens KIAA0255 gene product (KIAA0255), mRNA
9748	22399	35604	3.1	8.0E-95	5174844	NT	Homo sapiens proline dehydrogenase (proline oxidase) (PRODH) mRNA
9779	22430		2.94	8.0E-95	AB037816.1	NT	Homo sapiens mRNA for KIAA1395 protein, partial cds
10135	22783	35994	0.8	8.0E-95	9845523	NT	Homo sapiens early growth response 2 (Krox-20 (Drosophila) homolog) (EGR2), mRNA
10613	23307	36546	1.3	8.0E-95	AF112152.1	NT	Homo sapiens developmental arteries and neural crest EGF-like protein mRNA, complete cds
11466	24069	37377	1.86	8.0E-95	10864024	NT	Homo sapiens HCF-binding transcription factor Zhangfei (ZF), mRNA
12535	24879		12.4	8.0E-95	AA629056.1	EST_HUMAN	zua84b01.s1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:744649 3' similar to contains L1.t1 L1 repetitive element;
269	13077	25718	32.81	7.0E-95	D87675.1	NT	Homo sapiens DNA for amyloid precursor protein, complete cds
269	13077	25719	32.81	7.0E-95	D87675.1	NT	Homo sapiens DNA for amyloid precursor protein, complete cds
4333	17072	29701	5.18	7.0E-95	M95708.1	NT	Homo sapiens Ly-6-like protein (CD69) mRNA, complete cds
4380	17117		1.3	7.0E-95	AL163246.2	NT	Homo sapiens chromosome 21 segment HS21C046
9117	21805	34971	1.31	4.0E-95	BE439626.1	EST_HUMAN	HTM1-288F HTM1 Homo sapiens cDNA
5356	18159	30842	1.58	3.0E-95	BF526041.1	EST_HUMAN	602071146F1 NC1 CGAP_Brt64 Homo sapiens cDNA clone IMAGE:4214147 5'
5598	25071	31284	0.83	3.0E-95	4503354	NT	Homo sapiens dedicator of cyto-kinesis 1 (DOCK1) mRNA
7268	19952	33027	1.51	3.0E-95	AW958121.1	EST_HUMAN	EST370191 IMAGE resequences, IMAGE Homo sapiens cDNA
7268	19952	33028	1.51	3.0E-95	AW958121.1	EST_HUMAN	EST370191 IMAGE resequences, IMAGE Homo sapiens cDNA
8278	20972	34113	0.55	3.0E-95	AW157233.1	EST_HUMAN	au83b08.x1 Schneider fetal brain 00004 Homo sapiens cDNA clone IMAGE:2783798 3' similar to
8278	20972	34114	0.55	3.0E-95	AW157233.1	EST_HUMAN	TR:O60463 O60463 TYPE-2 PHOSPHATIDIC ACID PHOSPHOHYDROLASE. [1];
9255	21934	35107	1.89	3.0E-95	7662289	NT	au83b08.x1 Schneider fetal brain 00004 Homo sapiens cDNA clone IMAGE:2783798 3' similar to
9255	21934	35108	1.89	3.0E-95	7662289	NT	TR:O60463 O60463 TYPE-2 PHOSPHATIDIC ACID PHOSPHOHYDROLASE. [1];
9647	22299	35495	0.73	3.0E-95	BF213446.1	EST_HUMAN	Homo sapiens KIAA0763 gene product (KIAA0763), mRNA
10792	23475	36716	1.49	3.0E-95	R83190.1	EST_HUMAN	Homo sapiens KIAA0763 gene product (KIAA0763), mRNA
1639	14385	27072	2.31	2.0E-95	7662027	NT	601845212F1 NIH_MGC_55 Homo sapiens cDNA clone IMAGE:4070451 5'
1639	14385	27073	2.31	2.0E-95	7662027	NT	yp87g11.t1 Soares fetal liver spleen INFLS Homo sapiens cDNA clone IMAGE:194468 5'
1834	14669	27384	2.51	2.0E-95	4507512	NT	Homo sapiens KIAA0255 gene product (KIAA0255), mRNA
1937	14672	27388	1.92	2.0E-95	BE393873.1	EST_HUMAN	Homo sapiens tissue inhibitor of metalloproteinase 3 (Sorsby fundus dystrophy, pseudoinflammatory) (TIMP3) mRNA
2426	15147	27880	2.22	2.0E-95	5453665	NT	601312161F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3658862 5'
2426	15147	27881	2.22	2.0E-95	5453665	NT	Homo sapiens G protein-coupled receptor 19 (GPR19) mRNA
							Homo sapiens G protein-coupled receptor 19 (GPR19) mRNA

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Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
2468	15186	27925	3.28	2.0E-95	AF240786.1	NT	Homo sapiens glutathione S-transferase theta 2 (GSTT2) and glutathione S-transferase theta 1 (GSTT1) genes, complete cds
2517	15233	27973	1.95	2.0E-95	4758423	NT	Homo sapiens glycine cleavage system protein H (aminomethyl carrier) (GCSH) mRNA
3155	15918	28564	1.96	2.0E-95	AF015452.1	NT	Homo sapiens Ursuprin-gamma mRNA, complete cds
3552	16307	28956	3.07	2.0E-95	7705900	NT	Homo sapiens unconventional myosin-15 (LOC51168), mRNA
3552	16307	28957	3.07	2.0E-95	7705900	NT	Homo sapiens unconventional myosin-15 (LOC51168), mRNA
3605	16358	28998	1.29	2.0E-95	AB037807.1	NT	Homo sapiens mRNA for KIAA1386 protein, partial cds
3732	16485	29122	0.68	2.0E-95	AI290264.1	EST_HUMAN	qim01c02.x1 Soares_NHMPu_S1 Homo sapiens cDNA clone IMAGE:1880546 3' similar to WP:T23G7.4 CE03705
4328	17067	29895	1.32	2.0E-95	7657185	NT	Homo sapiens hypothetical protein (HS322B1A), mRNA
4978	17701	30308	2.72	2.0E-95	7661979	NT	Homo sapiens KIAA0187 gene product (KIAA0187), mRNA
5392	18192	30884	4.21	2.0E-95	7705764	NT	Homo sapiens CGI-48 protein (LOC51096), mRNA
5392	18192	30885	4.21	2.0E-95	7705764	NT	Homo sapiens CGI-48 protein (LOC51096), mRNA
5611	18407	31319	1.27	2.0E-95	11225608	NT	Homo sapiens angiotensin I converting enzyme (peptidyl-dipeptidase A) 2 (ACE2), mRNA
5611	18407	31320	1.27	2.0E-95	11225608	NT	Homo sapiens angiotensin I converting enzyme (peptidyl-dipeptidase A) 2 (ACE2), mRNA
5651	18446	31360	0.7	2.0E-95	11525883	NT	Homo sapiens membrane protein, palmitoylated 3 (MACUK p65 subfamily member 3) (MPP3), mRNA
6051	18831	31794	5.04	2.0E-95	M59724.1	NT	Human muscle-type phosphofructokinase (PFK-M) gene, exon 7
6358	19128	32122	1.16	2.0E-95	11427182	NT	Homo sapiens transcription factor 2, hepatic; LF-B3; variant hepatic nuclear factor (TCF2), mRNA
6358	19128	32123	1.16	2.0E-95	11427182	NT	Homo sapiens transcription factor 2, hepatic; LF-B3; variant hepatic nuclear factor (TCF2), mRNA
6476	19243	32243	2.45	2.0E-95	AF267737.1	NT	Homo sapiens ciliary dynein heavy chain 9 (DNAH9) mRNA, complete cds
6666	19583	32617	1.82	2.0E-95	11435773	NT	Homo sapiens huntingtin (Huntington disease) (HD), mRNA
9041	21731	34886	1.06	2.0E-95	11421795	NT	Homo sapiens ribophorin II (RPN2), mRNA
10280	22928	36142	0.84	2.0E-95	11434330	NT	Homo sapiens KIAA1065 protein (KIAA1065), mRNA
10624	23317	36557	2.46	2.0E-95	4757853	NT	Homo sapiens bone morphogenetic protein receptor, type IA (BMPRI1A) mRNA
11700	24295	37620	3.02	2.0E-95	7662289	NT	Homo sapiens KIAA0763 gene product (KIAA0763), mRNA
11700	24295	37621	3.02	2.0E-95	7662289	NT	Homo sapiens KIAA0763 gene product (KIAA0763), mRNA
12289	24724	31055	2.3	2.0E-95	AF240786.1	NT	Homo sapiens glutathione S-transferase theta 2 (GSTT2) and glutathione S-transferase theta 1 (GSTT1) genes, complete cds
12698	24980	30994	4.66	2.0E-95	11418164	NT	Homo sapiens adenylosuccinate lyase (ADSL), mRNA
5527	18325	31226	8.41	1.0E-95	AA284651.1	EST_HUMAN	223104.11 Soares ovary tumor NbtHOT Homo sapiens cDNA clone IMAGE:714007 5' similar to TR:G1067084 G1067084 F56H2.6;
5527	18325	31227	8.41	1.0E-95	AA284651.1	EST_HUMAN	223104.11 Soares ovary tumor NbtHOT Homo sapiens cDNA clone IMAGE:714007 5' similar to TR:G1067084 G1067084 F56H2.6;

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Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
7414	20091	33175	4.3	1.0E-95	BF370000.1	EST_HUMAN	RC6-FN0019-290600-011-G11 FN0019 Homo sapiens cDNA
7414	20091	33176	4.3	1.0E-95	BF370000.1	EST_HUMAN	RC6-FN0019-290600-011-G11 FN0019 Homo sapiens cDNA
8094	20788	33920	1.49	9.0E-98	BE887259.1	EST_HUMAN	607437232F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3922423 5'
8424	18223		2.77	8.0E-96	AW836047.1	EST_HUMAN	PM0-LT0019-090300-002-409 LT0019 Homo sapiens cDNA
3889	16639	29278	0.74	7.0E-96	AF231920.1	NT	Homo sapiens chromosome 21 unknown mRNA
3476	16232	28886	20.13	8.0E-96	M26873.1	NT	Human glyceraldehyde-3-phosphate dehydrogenase pseudogene 3'end
5552	18349	31258	0.74	8.0E-96	11422842	NT	Homo sapiens sialyltransferase 6 (N-acetylglucosaminide alpha 2,3-sialyltransferase) (SIAT6), mRNA
11534	24134	37439	3.36	6.0E-96	7662289	NT	Homo sapiens KIAA0763 gene product (KIAA0763), mRNA
11534	24134	37440	3.36	6.0E-96	7662289	NT	Homo sapiens KIAA0763 gene product (KIAA0763), mRNA
11584	24183	37498	2.05	6.0E-96	8923939	NT	Homo sapiens myosin, heavy polypeptide 2, skeletal muscle, adult (MYH2), mRNA
11769	24360	37692	1.83	6.0E-96	7662289	NT	Homo sapiens KIAA0763 gene product (KIAA0763), mRNA
11769	24360	37693	1.83	6.0E-96	7662289	NT	Homo sapiens KIAA0763 gene product (KIAA0763), mRNA
312	13116	25754	2.74	5.0E-96	AB032988.1	NT	Homo sapiens mRNA for KIAA1172 protein, partial cds
822	13592	26260	4.08	5.0E-96	AB032988.1	NT	Homo sapiens mRNA for KIAA1172 protein, partial cds
822	13592	26261	4.08	5.0E-96	AB032988.1	NT	Homo sapiens mRNA for KIAA1172 protein, partial cds
2624	15336		1.43	5.0E-96	11418767	NT	Homo sapiens phosphodiesterase 6A, cGMP-specific, rod, alpha (PDE6A), mRNA
4848	17576		1.39	5.0E-96	X60812.1	NT	H. sapiens DNA for microtubule oxidase type A (7) (partial)
6553	19318	32324	1.15	5.0E-96	AF14973.1	NT	Homo sapiens NOD1 protein (NOD1) gene, exons 1, 2, and 3
6684	19601	32639	5.18	5.0E-96	11424399	NT	Homo sapiens A kinase (PRKA) anchor protein 1 (AKAP1), mRNA
6684	19601	32640	5.18	5.0E-96	11424399	NT	Homo sapiens A kinase (PRKA) anchor protein 1 (AKAP1), mRNA
6923	19659	32706	0.71	5.0E-96	AB023177.1	NT	Homo sapiens mRNA for KIAA0960 protein, partial cds
7415	20092	33177	1.98	5.0E-96	AB024334.1	NT	Homo sapiens mRNA for 14-3-3gamma, complete cds
8005	20700	33828	1.35	5.0E-96	M68347.1	NT	Human type IV collagenase (Cl.G4B) gene, exon 5
8005	20700	33829	1.35	5.0E-96	M68347.1	NT	Human type IV collagenase (Cl.G4B) gene, exon 5
11793	24383	37715	1.4	5.0E-96	7661973	NT	Human type IV collagenase (Cl.G4B) gene, exon 5
4168	18908		12.32	3.0E-96	H68656.1	EST_HUMAN	Homo sapiens KIAA0175 gene product (KIAA0175), mRNA
406	13191		4.24	2.0E-96	4503098	NT	y87h12.1 Soares fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:212327 5'
730	13504	28159	0.91	2.0E-96	AL163248.2	NT	Homo sapiens chondroitin sulfate proteoglycan 4 (melanoma-associated) (CSPG4), mRNA
4708	17440	30072	1.89	2.0E-96	BE148074.1	EST_HUMAN	RC3-H10230-040500-110-g02 H10230 Homo sapiens cDNA
7361	20042	33120	0.62	2.0E-96	BF369731.1	EST_HUMAN	QV4-GN0120-250900-427-b12 GN0120 Homo sapiens cDNA
7361	20042	33121	0.62	2.0E-96	BF369731.1	EST_HUMAN	QV4-GN0120-250900-427-b12 GN0120 Homo sapiens cDNA
8879	21570		5.63	2.0E-96	AV689461.1	EST_HUMAN	AV689461 GKC Homo sapiens cDNA clone GKCFMD07 5'
12009	24543		2.81	2.0E-96	AW249440.1	EST_HUMAN	2819351.5prtm NIH_MGC_7 Homo sapiens cDNA clone IMAGE:2819351 5'

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Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
608	13386	26016	2.6	1.0E-96	4826863	NT	Homo sapiens neuronal cell adhesion molecule (NRCAM) mRNA
608	13386	26017	2.6	1.0E-96	4826863	NT	Homo sapiens neuronal cell adhesion molecule (NRCAM) mRNA
656	13433	26074	3.38	1.0E-96	Y18890.1	NT	Human endogenous retrovirus type K (HERV-K), gag, pol and env genes
1774	14516	27216	2.56	1.0E-96	AW955054.1	EST_HUMAN	EST367124 MAGE resequencing, MAGC Homo sapiens cDNA
1774	14516	27217	2.56	1.0E-96	AW955054.1	EST_HUMAN	EST367124 MAGE resequencing, MAGC Homo sapiens cDNA
2262	15527	27729	1.08	1.0E-96	U51472.2	NT	Felis catus superfast myosin heavy chain (sMYHC) mRNA, complete cds
6869	17946	30541	1.3	1.0E-96	6912735	NT	Homo sapiens transient receptor potential channel 5 (TRPC5), mRNA
6949	18431	32447	0.67	1.0E-96	6912455	NT	Homo sapiens guanine nucleotide exchange factor for Rap1 (KIAA0277), mRNA
8111	20805	33938	1.24	1.0E-96	7661803	NT	Homo sapiens HSPC144 protein (HSPC144), mRNA
8111	20805	33939	1.24	1.0E-96	7661803	NT	Homo sapiens HSPC144 protein (HSPC144), mRNA
8616	21308	34450	20.68	1.0E-96	11419429	NT	Homo sapiens similar to ectonucleotide pyrophosphatase/phosphodiesterase 3 (H. sapiens) (LOC63214), mRNA
8749	21441	34588	2.09	1.0E-96	AF274963.1	NT	Homo sapiens secretory pathway component Sec31B-1 mRNA, alternatively spliced, complete cds
10059	22707	35924	1.24	1.0E-96	AB033116.1	NT	Homo sapiens mRNA for KIAA1290 protein, partial cds
10059	22707	35925	1.24	1.0E-96	AB033116.1	NT	Homo sapiens mRNA for KIAA1290 protein, partial cds
11999	13386	26016	1.97	1.0E-96	4826863	NT	Homo sapiens neuronal cell adhesion molecule (NRCAM) mRNA
11999	13388	26017	1.97	1.0E-96	4826863	NT	Homo sapiens neuronal cell adhesion molecule (NRCAM) mRNA
7457	20131		2.6	6.0E-97	BE141849.1	EST_HUMAN	IL5-HT0117-011099-004-D07 HT0117 Homo sapiens cDNA
8832	21524	34670	0.89	6.0E-97	BE898012.1	EST_HUMAN	601440317F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3925133 5'
8832	21524	34671	0.89	6.0E-97	BE898012.1	EST_HUMAN	601440317F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3925133 5'
10497	23143	36369	0.57	6.0E-97	AA320332.1	EST_HUMAN	EST22872 Adipose tissue, white II Homo sapiens cDNA 5' end
10497	23143	36370	0.57	6.0E-97	AA320332.1	EST_HUMAN	EST22872 Adipose tissue, white II Homo sapiens cDNA 5' end
11382	23989	37290	1.46	6.0E-97	X15804.1	NT	Human mRNA for alpha-actinin
7913	20808	33739	1.91	5.0E-97	AL043314.2	EST_HUMAN	DKFZp434N0323_r1 434 (synonym: htes3) Homo sapiens cDNA clone DKFZp434N0323 5'
8042	20738	33869	11.73	5.0E-97	AA418026.1	EST_HUMAN	z087e12 st Soares_NhHMPu_S1 Homo sapiens cDNA clone IMAGE:767758 3' similar to TR:G1304125
9574	22227	35412	2.66	5.0E-97	BF154912.1	EST_HUMAN	G1304125 PMS4 MRNA
11535	24135	37441	1.98	5.0E-97	BE148597.1	EST_HUMAN	RC0-BT0812-250900-032-a09 BT0812 Homo sapiens cDNA
11535	24135	37442	1.98	5.0E-97	BE148597.1	EST_HUMAN	MR0-HT0241-150500-010-502 HT0241 Homo sapiens cDNA
918	13685	26349	1.59	4.0E-97	BE004436.1	EST_HUMAN	MR0-HT0241-150500-010-502 HT0241 Homo sapiens cDNA
928	13695	26359	1.04	4.0E-97	AB030176.1	NT	CMO-BN0106-170300-283-a06 BN0106 Homo sapiens cDNA
928	13695	26360	1.04	4.0E-97	AB030176.1	NT	Homo sapiens PAD-H19 mRNA for peptidylarginine diaminase type II, complete cds
928	13695	26360	1.04	4.0E-97	AB030176.1	NT	Homo sapiens PAD-H19 mRNA for peptidylarginine diaminase type II, complete cds
1903	14640	27349	1.07	4.0E-97	5453572	NT	Homo sapiens brefeldin A-inhibited guanine nucleotide-exchange protein 2 (BIG2), mRNA

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Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
5478	18277	31172	0.91	4.0E-97	4557328	NT	Homo sapiens apolipoprotein H (beta-2-glycoprotein I) (APOH) mRNA
5765	18558	31482	0.95	4.0E-97	U09002.1	NT	Human N-methyl-D-aspartate receptor modulatory subunit 2A (hNR2A) mRNA, complete cds
5765	18556	31483	0.95	4.0E-97	U09002.1	NT	Human N-methyl-D-aspartate receptor modulatory subunit 2A (hNR2A) mRNA, complete cds
6725	19559	32590	6.47	4.0E-97	Y11339.2	NT	Homo sapiens mRNA for GalNAc alpha-2, 6-sialyltransferase I, long form
6725	19559	32591	6.47	4.0E-97	Y11339.2	NT	Homo sapiens mRNA for GalNAc alpha-2, 6-sialyltransferase I, long form
6921	19657	32703	1	4.0E-97	7710125	NT	Homo sapiens ligase III, DNA, ATP-dependent (LIG3), transcript variant alpha, mRNA
6988	19450	32468	1.05	4.0E-97	11422155	NT	Homo sapiens cystic fibrosis transmembrane conductance regulator, ATP-binding cassette (sub-family C, member 7) (CFTR), mRNA
8036	20731	33863	0.57	4.0E-97	4557708	NT	Homo sapiens laminin, alpha 2 (merosin, congenital muscular dystrophy) (LAMA2) mRNA
8258	20950	34087	2.83	4.0E-97	11421793	NT	Homo sapiens v-src avian sarcoma (Schmidt-Ruppin A-2) viral oncogene homolog (SRC), mRNA
8518	21210	34353	0.75	4.0E-97	11423233	NT	Homo sapiens cytochrome P450, subfamily IVB, polypeptide 1 (CYP4B1), mRNA
9147	21878	35043	1.23	4.0E-97	AB011166.1	NT	Homo sapiens mRNA for KIAA0594 protein, partial cds
9147	21878	35044	1.23	4.0E-97	AB011166.1	NT	Homo sapiens mRNA for KIAA0594 protein, partial cds
11116	23786	37062	1.88	4.0E-97	11663122	NT	Homo sapiens AXI receptor tyrosine kinase (AXL), transcript variant 1, mRNA
11116	23786	37063	1.88	4.0E-97	11663122	NT	Homo sapiens AXI receptor tyrosine kinase (AXL), transcript variant 1, mRNA
11412	23179	36407	3.61	4.0E-97	AB042557.1	NT	Homo sapiens mRNA, similar to rat myomegalin, complete cds
11415	23182	36411	1.62	4.0E-97	AB033116.1	NT	Homo sapiens mRNA for KIAA1290 protein, partial cds
11415	23182	36412	1.62	4.0E-97	AB033116.1	NT	Homo sapiens mRNA for KIAA1290 protein, partial cds
12180	24652		7.76	4.0E-97	11418318	NT	Homo sapiens G-2 and S-phase expressed 1 (GTSE1), mRNA
236	13046	26885	1.14	3.0E-97	AB032998.1	NT	Homo sapiens mRNA for KIAA1172 protein, partial cds
854	13624	26294	29.53	3.0E-97	4502166	NT	Homo sapiens amyloid beta (A4) precursor protein (protease nexin-II, Alzheimer disease) (APP), mRNA
854	13624	26295	29.53	3.0E-97	4502166	NT	Homo sapiens amyloid beta (A4) precursor protein (protease nexin-II, Alzheimer disease) (APP), mRNA
1422	15569	26855	1.29	3.0E-97	4758813	NT	Homo sapiens N-myc (and STAT) interactor (NMI), mRNA
2440	15529	27895	1.68	3.0E-97	U36255.1	NT	Human beta-prime-adaplin (BAM22) gene, exon 7
3254	16016	28667	1.3	3.0E-97	5174478	NT	Homo sapiens pericentrin (PCNT) mRNA
4729	17461	30098	12.99	1.0E-97	4503470	NT	Homo sapiens eukaryotic translation elongation factor 1 alpha 1 (EEF1A1) mRNA
6333	19103	32091	2.48	1.0E-97	BE568486.1	EST_HUMAN	601339520F1 NIH_MGC_53 Homo sapiens cDNA clone IMAGE:3681821 5'
9344	20415	33534	1.16	1.0E-97	AW379976.1	EST_HUMAN	RCO-HT0258-211199-011-g05 HT0258 Homo sapiens cDNA
9344	20415	33535	1.16	1.0E-97	AW379976.1	EST_HUMAN	RCO-HT0258-211199-011-g05 HT0258 Homo sapiens cDNA
9664	22316	35513	1.6	1.0E-97	R10887.1	EST_HUMAN	y38c08.s1 Soares fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:129134 3'
10604	23298	36538	3.44	1.0E-97	11427757	NT	Homo sapiens KIAA0649 gene product (KIAA0649), mRNA
10604	23298	36539	3.44	1.0E-97	11427757	NT	Homo sapiens KIAA0649 gene product (KIAA0649), mRNA

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Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
11260	23941	37235	2.03	1.0E-97	AA53761.1	EST_HUMAN	nk29g02.s1 NCI_CGAP_Cot11 Homo sapiens cDNA clone IMAGE:1014962 3'
11445	23212	36443	14.01	1.0E-97	11426272	NT	Homo sapiens ribosomal protein S15 (RPS15), mRNA
11445	23212	36444	14.01	1.0E-97	11426272	NT	Homo sapiens ribosomal protein S15 (RPS15), mRNA
881	13650	26319	3.52	9.0E-98	BE090973.1	EST_HUMAN	PM4-BT0724-010400-008-212 BT0724 Homo sapiens cDNA
1253	14002	26670	1.12	9.0E-98	8393092	NT	Homo sapiens cat eye syndrome critical region gene 1 (CECR1), mRNA
6210	18985				905713.1	NT	Homo sapiens CLDN12 gene for claudin-12
7190	19876	32949	0.67	9.0E-98	7661871	NT	Homo sapiens leucyl-tRNA synthetase, mitochondrial (KIAA00028), mRNA
7286	19969	33046	0.6	9.0E-98	11419408	NT	Homo sapiens A kinase (PRKA) anchor protein (yctiao) 9 (AKAP9), mRNA
7825	20520	33646	4.79	9.0E-98	4758119	NT	Homo sapiens death-associated protein (DAP), mRNA
7825	20520	33647	4.79	9.0E-98	4758119	NT	Homo sapiens death-associated protein (DAP), mRNA
9014	21704	34854	6.28	9.0E-98	X06989.1	NT	Human mRNA for amyloid A4(761) protein
9124	21812	34977	1.6	9.0E-98	11321580	NT	Homo sapiens succinate-CoA ligase, GDP-forming, alpha subunit (SUCLG1), mRNA
9192	21862	35027	1.59	9.0E-98	AB037786.1	NT	Homo sapiens mRNA for KIAA1365 protein, partial cds
9238	21917		0.96	9.0E-98	AF057726.1	NT	Homo sapiens 17-beta-hydroxysteroid dehydrogenase IV (HSD17B4) gene, exon 8
9267	22021	35190	1.14	9.0E-98	4507070	NT	Homo sapiens SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily a, member 3 (SMARCA3) mRNA
9267	22021	35191	1.14	9.0E-98	4507070	NT	Homo sapiens SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily a, member 3 (SMARCA3) mRNA
10160	22808	36026	0.45	9.0E-98	AF141325.2	NT	Homo sapiens inositol polyphosphate 1-phosphatase (INPP1) gene, complete cds
10928	23606	36856	2.63	9.0E-98	AB023222.1	NT	Homo sapiens mRNA for KIAA1005 protein, partial cds
10926	23606	36857	2.63	9.0E-98	AB023222.1	NT	Homo sapiens mRNA for KIAA1005 protein, partial cds
11004	23676	36932	1.39	9.0E-98	11418982	NT	Homo sapiens mitogen-activated protein kinase kinase 7 (MAP3K7), mRNA
11850	24434	37776	1.39	9.0E-98	AB011541.1	NT	Homo sapiens mRNA for MEGF8, partial cds
11850	24434	37777	1.39	9.0E-98	AB011541.1	NT	Homo sapiens mRNA for MEGF8, partial cds
1351	14089	26774	0.92	8.0E-98	AB033768.1	NT	Homo sapiens HPAD-colony10 mRNA for peptidylarginine deaminase type I, complete cds
1719	14462	27161	2.7	8.0E-98	AB017007.1	NT	Homo sapiens PMS2L16 mRNA, partial cds
1719	14462	27162	2.7	8.0E-98	AB017007.1	NT	Homo sapiens PMS2L16 mRNA, partial cds
3775	16527	29166	6.89	8.0E-98	J04469.1	NT	Homo sapiens PMS2L16 mRNA, partial cds
5991	18772	31735	0.99	5.0E-98	BE865873.1	EST_HUMAN	Human mitochondrial creatine kinase (CKMT) gene, complete cds
2176	14905	27638	1.14	3.0E-98	AJ403124.1	EST_HUMAN	601507503F1 NIH_MGC_71 Homo sapiens cDNA clone IMAGE:3909097 5'
2613	15324	28067	0.99	3.0E-98	AJ403124.1	EST_HUMAN	AJ403124.3.4 (downregulated in larynx carcinoma) Homo sapiens cDNA clone 18
2753	15458		0.99	3.0E-98	AB014607.1	NT	Homo sapiens mRNA for KIAA0707 protein, partial cds
6847	19547	32576	2.9	3.0E-98	AA077498.1	EST_HUMAN	7B18H01 Chromosome 7 Fetal Brain cDNA Library Homo sapiens cDNA clone 7B18H01
6847	19547	32577	1.9	3.0E-98	11419210	NT	Homo sapiens activator of S phase kinase (ASK), mRNA
6847	19547	32577	1.9	3.0E-98	11419210	NT	Homo sapiens activator of S phase kinase (ASK), mRNA

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
8649	21341	34495	2.73	3.0E-98	H46698.1	EST_HUMAN	y017g09.r1 Soares adult brain N2b5HB55Y Homo sapiens cDNA clone IMAGE:178240 5'
9197	21866	35030	0.48	3.0E-98	8922096	NT	Homo sapiens uncharacterized bone marrow protein BM039 (BM039), mRNA
9783	22434	35639	1.42	3.0E-98	AJ403124.1	EST_HUMAN	AJ403124 3.4 (downregulated in larynx carcinoma) Homo sapiens cDNA clone 18
9783	22434	35640	1.42	3.0E-98	AJ403124.1	EST_HUMAN	AJ403124 3.4 (downregulated in larynx carcinoma) Homo sapiens cDNA clone 18
10371	23017	36233	0.96	3.0E-98	BE900454.1	EST_HUMAN	601673686F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3956517 5'
10872	23552	36799	4.11	3.0E-98	U59309.1	NT	Human fumerase precursor (FH) mRNA, nuclear gene encoding mitochondrial protein, complete cds
11863	24447	37788	1.56	3.0E-98	L28405.1	NT	Homo sapiens (huc) mRNA, complete cds
12668	25262		1.47	3.0E-98	BE382519.1	EST_HUMAN	601297955F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:3628213 5'
12761	25013		3.56	3.0E-98	11418177	NT	Homo sapiens Ran GTPase activating protein 1 (RANGAP1), mRNA
2071	14803	27631	2.66	2.0E-98	BE294281.1	EST_HUMAN	601172658F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:3528134 5'
2231	14959	27699	1.53	2.0E-98	AL169202.2	NT	Homo sapiens chromosome 21 segment HS21C002
4204	17006	29637	0.8	2.0E-98	AF032897.1	NT	Homo sapiens fatty-acid-Coenzyme A ligase, long-chain 4 (FACL4) mRNA
4306	17045	29670	3.21	2.0E-98	475833.1	NT	Homo sapiens attractin precursor (ATRIN) gene, exon 16
4776	17508	30129	1.34	2.0E-98	AF218902.1	NT	Homo sapiens protein tyrosine kinase 2 beta (PTK2B) mRNA
5131	17849	30466	1.39	2.0E-98	4758975	NT	Homo sapiens PDZ domain-containing guanine nucleotide exchange factor 1 (LOC51735), mRNA
5292	18097	30757	4.03	2.0E-98	7706512	NT	Homo sapiens phosphatidylinositol 3-kinase, class 2, alpha polypeptide (PIK3C2A) mRNA
6557	19322	32329	1.15	2.0E-98	4505798	NT	Homo sapiens hypothetical protein FLJ10488 (FLJ10488), mRNA
7523	20194	33286	1.07	2.0E-98	11431271	NT	Homo sapiens SH3-domain GRB2-like 2 (SH3GL2), mRNA
7523	20194	33287	1.07	2.0E-98	11431271	NT	Homo sapiens SH3-domain GRB2-like 2 (SH3GL2), mRNA
8506	21198	34343	4.94	2.0E-98	11428813	NT	Homo sapiens SH3-domain GRB2-like 2 (SH3GL2), mRNA
8506	21198	34421	4.94	2.0E-98	11428813	NT	Homo sapiens SH3-domain GRB2-like 2 (SH3GL2), mRNA
8591	21283	34422	0.58	2.0E-98	L76668.1	NT	Homo sapiens arginase gene exon 3 (EC 3.5.3.1)
9437	22115	35260	1.48	2.0E-98	X12684.1	NT	Homo sapiens AIM-1 protein (LOC51151), mRNA
10313	22960		1.37	2.0E-98	7705668	NT	Human cytochrome P450 (CYP2A13) gene, complete cds
11155	23822	37103	1.42	2.0E-98	U22028.1	NT	tw36b04.x1 NCI CGAP U11 Homo sapiens cDNA clone IMAGE:2261743 3' similar to SW:RL2B_HUMAN
396	13181	25829	16.4	1.0E-98	AI66207.1	EST_HUMAN	P29316 60S RIBOSOMAL PROTEIN L29A.1
442	13228	25871	2.12	1.0E-98	AW998611.1	EST_HUMAN	PM0-BN0065-100300-001-c06 BN0065 Homo sapiens cDNA
1789	14529	27237	11.24	1.0E-98	N49818.1	EST_HUMAN	YR2305.r1 Soares fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:243585 5' similar to PIR:S64204 S54204 ribosomal protein L29 - human;

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
5234	18040	30688	3.4	1.0E-98	AA195854.1	EST_HUMAN	z98c09.r1 Stratagene muscle 937209 Homo sapiens cDNA clone IMAGE:828240 5' similar to TR:G806562 G806562 NEBULIN.
5482	18281	31178	1.1	1.0E-98	BE390827.1	EST_HUMAN	601284986F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3606692 5'
5482	18281	31179	1.1	1.0E-98	BE390827.1	EST_HUMAN	601284986F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3606692 5'
8898	21587	34726	2.7	1.0E-98	AF141349.1	NT	Homo sapiens beta-tubulin mRNA, complete cds
8898	21587	34727	2.7	1.0E-98	AF141349.1	NT	Homo sapiens beta-tubulin mRNA, complete cds
5728	18520	31441	0.88	9.0E-99	A1905004.1	EST_HUMAN	QV-BT073-191298-012 BT073 Homo sapiens cDNA
5728	18520	31442	0.88	9.0E-99	A1905004.1	EST_HUMAN	QV-BT073-191298-012 BT073 Homo sapiens cDNA
5949	18731	31691	4.21	9.0E-99	AW968635.1	EST_HUMAN	EST380711 MAGC resequences, MAGJ Homo sapiens cDNA
11066	23736	37009	2.75	9.0E-99	A1479829.1	EST_HUMAN	tm69h07.x1 NCL_CGAP_Bm25 Homo sapiens cDNA clone IMAGE:2163421 3' similar to SW:BD_HUMAN P55957 BH3 INTERACTING DOMAIN DEATH AGONIST
11066	23736	37010	2.75	9.0E-99	A1479829.1	EST_HUMAN	tm69h07.x1 NCL_CGAP_Bm25 Homo sapiens cDNA clone IMAGE:2163421 3' similar to SW:BD_HUMAN P55957 BH3 INTERACTING DOMAIN DEATH AGONIST
11390	23996	37298	2.13	9.0E-99	AA134604.1	EST_HUMAN	z190d02.r1 Stratagene lung carcinoma 937218 Homo sapiens cDNA clone IMAGE:565443 5' similar to TR:G662994 G662994 GPI-ANCHORED PROTEIN P137.
8827	21319	34461	1.96	8.0E-99	9635487	NT	Human endogenous retrovirus, complete genome
5743	18535	31458	10.03	7.0E-99	AF035808.1	NT	Homo sapiens occlillin (hLn) gene, exon 5
11610	24208	37532	2.99	7.0E-99	AF001886.1	NT	Homo sapiens NK-receptor (KIR-G2) gene, linker region exon
459	13244	25886	1.89	6.0E-99	U10991.1	NT	Human G2 protein mRNA, partial cds
3868	16618	29258	1.15	6.0E-99	AW976384.1	EST_HUMAN	EST388473 MAGC resequences, MAGN Homo sapiens cDNA
4699	17433	30084	1.21	6.0E-99	4502660	NT	Homo sapiens CD34 antigen (CD34) mRNA
6503	19288	32270	0.72	6.0E-99	7706136	NT	Homo sapiens GAP-like protein (LOC51306), mRNA
6578	19341	32354	1.01	6.0E-99	L43610.1	NT	Homo sapiens polycystic kidney disease (PKD1) gene, exons 27-30
6578	19341	32355	1.01	6.0E-99	L43610.1	NT	Homo sapiens polycystic kidney disease (PKD1) gene, exons 27-30
8003	20898	33828	1.18	6.0E-99	X99101.1	NT	H. sapiens mRNA for estrogen receptor
8022	20717	33849	0.53	6.0E-99	6601589	NT	Homo sapiens ankyrin-like with transmembrane domains 1 (ANKTM1), mRNA
8663	21355	34502	2.28	6.0E-99	AB036429.1	NT	Homo sapiens NDST4 mRNA for N-deacetylase/N-sulfotransferase 4, complete cds
8762	21454	34602	3.33	6.0E-99	AF080255.1	NT	Homo sapiens lodestar protein mRNA, complete cds
8762	21454	34603	3.33	6.0E-99	AF080255.1	NT	Homo sapiens lodestar protein mRNA, complete cds
8821	21513	34657	0.6	6.0E-99	11431994	NT	Homo sapiens inositol 1,4,5-triphosphate receptor, type 1 (ITPR1), mRNA
8821	21513	34658	0.6	6.0E-99	11431994	NT	Homo sapiens inositol 1,4,5-triphosphate receptor, type 1 (ITPR1), mRNA
10620	23313	36553	3.89	6.0E-99	11526299	NT	Homo sapiens BH3 interacting domain death agonist (BID), mRNA
11433	23200	36431	2.01	6.0E-99	9910279	NT	Homo sapiens UDP-glucose:glycoprotein glucosyltransferase 1 (HUGT1), mRNA
11433	23200	36432	2.01	6.0E-99	9910279	NT	Homo sapiens UDP-glucose:glycoprotein glucosyltransferase 1 (HUGT1), mRNA

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1957	14693	27406	1.38	5.0E-99	Y11365.1	NT	H.sapiens IMPA gene, exon 8
4628	17261	29895	1.56	5.0E-99	AF009860.1	NT	Homo sapiens T cell receptor beta locus, TCRBV73A2 to TCRBV12S2 region
12208	24674		2.81	5.0E-99	BE890177.1	EST_HUMAN	601513157F1 NIH_MGC_71 Homo sapiens cDNA clone IMAGE:3814391 5'
8220	20814		4.88	3.0E-99	M95586.1	NT	Human E2A/HLA fusion protein (E2A/HLF) mRNA, complete cds
1217	13968		6.88	2.0E-99	AW274792.1	EST_HUMAN	xp09e06.x1 NCI CGAP HNB Homo sapiens cDNA clone IMAGE:2739874 3' similar to gb.M31212 MYOSIN LIGHT CHAIN ALKALI, NON-MUSCLE ISOFORM (HUMAN);
3253	16015	28666	1.29	2.0E-99	M30939.1	NT	Human Ku (p70/p80) subunit mRNA, complete cds
4506	17241	29874	1.04	2.0E-99	AF095703.1	NT	Homo sapiens short chain L-3-hydroxyacyl-CoA dehydrogenase precursor (HADHSC) gene, nuclear gene encoding mitochondrial protein, complete cds
7574	20243	33348	0.58	2.0E-99	AF257737.1	NT	Homo sapiens ciliary dynein heavy chain 9 (DNAH9) mRNA, complete cds
8608	21300	34444	9.55	2.0E-99	W23507.1	EST_HUMAN	zb46d06.r1 Soares_fetal_lung_NbHL19W Homo sapiens cDNA clone IMAGE:306635 5' similar to
9050	21739	34897	0.76	2.0E-99	R78254.1	EST_HUMAN	gb.M15182 BETA-GLUCURONIDASE PRECURSOR (HUMAN);
11049	23719	36980	3.39	2.0E-99	AF247457.2	NT	y81b09.r1 Soares placenta Nb2HP Homo sapiens cDNA clone IMAGE:145625 5'
11788	24378	37708	1.46	2.0E-99	10863960	NT	Homo sapiens myosin X (MYO10) mRNA, complete cds
307	13111	25751	1.63	1.0E-99	AF114487.1	NT	Homo sapiens potassium channel, subfamily K, member 10 (KCNK10), mRNA
370	13166	25809	1.02	1.0E-99	11526150	NT	Homo sapiens interseitin long isoform (ITSN) mRNA, complete cds
1400	14147	26826	2.09	1.0E-99	M30938.1	NT	Homo sapiens GA-binding protein transcription factor, alpha subunit (GABPA), mRNA
1549	14295	26881	2.84	1.0E-99	AF192523.1	NT	Human Ku (p70/p80) subunit mRNA, complete cds
1549	14295	26982	2.64	1.0E-99	AF192523.1	NT	Homo sapiens truncated Niemann-Pick C3 protein (NPC3) mRNA, complete cds
1920	14657	27367	1.41	1.0E-99	4503730	NT	Homo sapiens FK506-binding protein 6 (36kD) (FKBP6) mRNA, complete cds
1920	14657	27368	1.41	1.0E-99	4503730	NT	Homo sapiens FK506-binding protein 6 (36kD) (FKBP6) mRNA, and translated products
3083	15848	28489	1.36	1.0E-99	J03171.1	NT	Human Interferon-alpha receptor (HuIFN-alpha-Rec) mRNA, complete cds
4347	17086	29715	2.82	1.0E-99	AF098018.1	NT	Homo sapiens fatty acid amide hydrolase (FAAH) gene, exon 14
4347	17086	29716	2.82	1.0E-99	AF098018.1	NT	Homo sapiens fatty acid amide hydrolase (FAAH) gene, exon 14
5658	18453	31367	0.88	1.0E-99	7662349	NT	Homo sapiens cell recognition molecule Caspr2 (KIAA0868), mRNA
6707	19622	32665	1.28	1.0E-99	11421007	NT	Homo sapiens glycine receptor, alpha 2 (GLRA2), mRNA
6707	19622	32666	1.28	1.0E-99	11421007	NT	Homo sapiens glycine receptor, alpha 2 (GLRA2), mRNA
7039	25104	32789	0.76	1.0E-99	X68022.1	NT	H.sapiens EG-AP gene exon 2
9099	21787		1.49	1.0E-99	11419724	NT	Homo sapiens ALEX1 protein (LOC51309), mRNA
9420	22098	35270	1.71	1.0E-99	AW340474.1	EST_HUMAN	hd02h02.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2908371 3' similar to TR.O02711
11084	23754	37029	2.01	1.0E-99	7427514	NT	O02711 PRO-POL-DUTPASE POLYPROTEIN ;
11084	23754	37030	2.01	1.0E-99	7427514	NT	Homo sapiens huntingtin interacting protein 1 (HIP1), mRNA
							Homo sapiens huntingtin interacting protein 1 (HIP1), mRNA

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
11141	23808	37088	1.8	1.0E-99	5901979	NT	Homo sapiens heat shock transcription factor 2 binding protein (HSF2BP), mRNA
11350	24040	37343	2.77	1.0E-99	AB023222.1	NT	Homo sapiens mRNA for KIAA1005 protein, partial cds
11984	24525		6.68	1.0E-99	AF240786.1	NT	Homo sapiens glutathione S-transferase theta 2 (GSTT2) and glutathione S-transferase theta 1 (GSTT1) genes, complete cds
1	12830	25443	0.95	1.0E-100	AL163247.2	NT	Homo sapiens chromosome 21 segment HS21C047
2	12830	25443	1.53	1.0E-100	AL163247.2	NT	Homo sapiens chromosome 21 segment HS21C047
66	12894	25528	1.54	1.0E-100	11418230	NT	Homo sapiens Testis-specific XK-related protein on Y (XKRY), mRNA
66	12894	25527	1.54	1.0E-100	11418230	NT	Homo sapiens Testis-specific XK-related protein on Y (XKRY), mRNA
85	12911	25550	0.69	1.0E-100	AW275237.1	EST_HUMAN	xx78b1.1 x1 NCI CGAP_Brn53 Homo sapiens cDNA clone IMAGE:2824605 3'
165	12979	25618	1.24	1.0E-100	AL163206.2	NT	Homo sapiens chromosome 21 segment HS21C006
309	13113	25753	0.83	1.0E-100	AL163249.2	NT	Homo sapiens chromosome 21 segment HS21C049
334	13136	25770	3.06	1.0E-100	T05087.1	EST_HUMAN	EST02975 Fetal brain, Striatum (cat8936206) Homo sapiens cDNA clone HFBRCR32
427	13213		1.28	1.0E-100	AF003528.1	NT	Homo sapiens X-linked anhidrotic ectodermal dysplasia protein gene (EDA), exon 2 and flanking repeat regions
477	13263		7.19	1.0E-100	X89631.1	NT	G. gorilla DNA for ZNF80 gene homolog
496	13280	25915	1.33	1.0E-100	BE180609.1	EST_HUMAN	RC3-HT0625-040500-022-509 HT0625 Homo sapiens cDNA
998	13758	26418	3.22	1.0E-100	7661685	NT	Homo sapiens DKFZP586M0122 protein (DKFZP586M0122), mRNA
998	13758	26419	3.22	1.0E-100	7661685	NT	Homo sapiens DKFZP586M0122 protein (DKFZP586M0122), mRNA
1415	14193	26846	3.14	1.0E-100	BF530735.1	EST_HUMAN	602072064F1 NCI CGAP_Brn67 Homo sapiens cDNA clone IMAGE:4215039 5'
1538	14285		1.14	1.0E-100	AW207555.1	EST_HUMAN	U1-H-B11-afk-c-07-0-U1 s1 NCI CGAP_Sub3 Homo sapiens cDNA clone IMAGE:2722164 3'
1543	14289	26976	1.81	1.0E-100	AI200857.1	EST_HUMAN	q16209 x1 Soares testis_NHT Homo sapiens cDNA clone IMAGE:1754633 3' similar to SW:CYT_COTJA
1856	14594	27309	1.41	1.0E-100	AB032994.1	NT	P81061 CYSTATIN1
2238	14986		1.39	1.0E-100	D83349.1	NT	Homo sapiens mRNA for KIAA1168 protein, partial cds
2439	15159	27894	1.33	1.0E-100	X62468.1	NT	Rat mRNA for short type PB-cadherin, complete cds
2710	15417	28165	2.36	1.0E-100	11418976	NT	H. sapiens mRNA for IFN-gamma (pK-C-0)
3018	15784		5.5	1.0E-100	D11078.1	NT	Homo sapiens KIAA0957 protein (KIAA0957), mRNA
4186	16927	29558	1.52	1.0E-100	AF057354.1	NT	Homo sapiens RGH2 gene, retrovirus-like element
4211	16952	29576	2.14	1.0E-100	4503792	NT	Homo sapiens myotubularin-related protein 1a mRNA, partial cds
4418	17154	29785	1.03	1.0E-100	AF036943.1	NT	Homo sapiens follicle stimulating hormone receptor (FSHR) mRNA
5031	17751	30382	2.66	1.0E-100	5032104	NT	Homo sapiens myelin transcription factor 1-like (MYT1-) mRNA, complete cds
5031	17751	30363	2.66	1.0E-100	5032104	NT	Homo sapiens small optic lobes (Drosophila) homolog (SOLH) mRNA
5207	18015	30637	1.62	1.0E-100	BF244218.1	EST_HUMAN	Homo sapiens small optic lobes (Drosophila) homolog (SOLH) mRNA
							601863164F1 NIH_MGC_57 Homo sapiens cDNA clone IMAGE:4080999 5'

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
5421	18220	30931	0.59	1.0E-100	AW075983.1	EST_HUMAN	xab2701.x1 NCI_CGAP_CML_1 Homo sapiens cDNA clone IMAGE:2573305 3' similar to gb.X12433
5614	18410	31323	1.33	1.0E-100	AU118182.1	EST_HUMAN	PROTEIN PHPS1-2 (HUMAN);
5660	18455	31369	1.26	1.0E-100	AF135116.1	NT	AU118182 HEMBA1 Homo sapiens cDNA clone HEMBA1003046 5'
5747	18539	31461	0.8	1.0E-100	X14690.1	NT	Homo sapiens NF-E2-related factor 3 gene, complete cds
6071	18650	31814	0.94	1.0E-100	4557568	NT	Human mRNA for plasma inter-alpha-trypsin inhibitor heavy chain H(3)
6071	18650	31815	0.94	1.0E-100	4557568	NT	Homo sapiens ER to nucleus signalling 1 (ERN1) mRNA
6343	19113		1.67	1.0E-100	5729887	NT	Homo sapiens ER to nucleus signalling 1 (ERN1) mRNA
6405	19174	32173	5.64	1.0E-100	AU140214.1	EST_HUMAN	Homo sapiens hct domain and RLD 2 (HERC2), mRNA
6467	19224	32224	1.97	1.0E-100	AU136800.1	EST_HUMAN	AU140214 PLAGE2 Homo sapiens cDNA clone PLAGE2000137 5'
6586	19349	32362	1.37	1.0E-100	R10887.1	EST_HUMAN	AU136800 PLAGE1 Homo sapiens cDNA clone PLAGE2000137 5'
6670	19587	32622	0.9	1.0E-100	7382479	NT	YF38c08.s1 Soares fetal liver spleen 1NFLS Homo sapiens cDNA clone PLAGE1005089 5'
6742	19576	32608	1.19	1.0E-100	AA498841.1	EST_HUMAN	Homo sapiens Rho GTPase activating protein 8 (ARHGAP8), transcript variant 4, mRNA
6742	19576	32609	1.19	1.0E-100	AA498841.1	EST_HUMAN	ae33b06.t1 Gessler Wilms tumor Homo sapiens cDNA clone IMAGE:897587 5' similar to TR.G487418
6766	19530	32557	1.13	1.0E-100	BF376478.1	EST_HUMAN	G487418 ACTIN FILAMENT-ASSOCIATED PROTEIN. ;
6786	19530	32558	1.13	1.0E-100	BF376478.1	EST_HUMAN	G487418 ACTIN FILAMENT-ASSOCIATED PROTEIN. ;
6793	19537	32565	6.76	1.0E-100	X04571.1	NT	MR1-TN0046-060900-004-b05 TN0046 Homo sapiens cDNA
8430	21123	34261	7.17	1.0E-100	BF103853.1	EST_HUMAN	MR1-TN0046-060900-004-b05 TN0046 Homo sapiens cDNA
8466	21168		4.8	1.0E-100	AL163203.2	NT	Human mRNA for kidney epidermal growth factor (EGF) precursor
8912	21603	34746	0.68	1.0E-100	AU116951.1	EST_HUMAN	G01647357F1 NIH_MGC_81 Homo sapiens cDNA clone IMAGE:3931310 5'
8912	21603	34747	0.68	1.0E-100	AU116951.1	EST_HUMAN	Homo sapiens chromosome 21 segment HS21C003
8132	21820	34986	3.52	1.0E-100	AB040918.1	NT	AU116951 HEMBA1 Homo sapiens cDNA clone HEMBA1000343 5'
9210	22089		2.78	1.0E-100	A1972388.1	EST_HUMAN	AU116951 HEMBA1 Homo sapiens cDNA clone HEMBA1000343 5'
9333	20404	33520	1.82	1.0E-100	AW99811.1	EST_HUMAN	Homo sapiens mRNA for KIAA1485 protein, partial cds
9386	22048		7.61	1.0E-100	AU127720.1	EST_HUMAN	wr37g08.x1 NCI_CGAP_P28 Homo sapiens cDNA clone IMAGE:2489920 3' similar to contains element
9483	22136	35316	2.11	1.0E-100	AB046846.1	NT	IMER22 repetitive element ;
9483	22136	35317	2.11	1.0E-100	AB046846.1	NT	PMO-BN0065-100300-001-c06 BN0065 Homo sapiens cDNA
9743	22394	35598	1.68	1.0E-100	AW630487.1	EST_HUMAN	AU127720 NT2RP2 Homo sapiens cDNA clone NT2RP2001918 5'
9743	22394	35599	1.68	1.0E-100	AW630487.1	EST_HUMAN	Homo sapiens mRNA for KIAA1626 protein, partial cds
9905	22554	35749	0.49	1.0E-100	AV732101.1	EST_HUMAN	h83c11.y1 NCI_CGAP_GU1 Homo sapiens cDNA clone IMAGE:2868396 5'
10368	23014	36230	1.47	1.0E-100	BF547519.1	EST_HUMAN	h83c11.y1 NCI_CGAP_GU1 Homo sapiens cDNA clone IMAGE:2868396 5'
							AV732101 HTF Homo sapiens cDNA clone HTF1G01 5'
							G02020554F1 NCI_CGAP_Bn67 Homo sapiens cDNA clone IMAGE:4156165 5'

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Table 4
Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
10458	23104		2.2	1.0E-100	Y10391.1	NT	Human endogenous retrovirus HERV-K, pol gene
10858	23349	36586	6.27	1.0E-100	BF327292.1	EST_HUMAN	MRO-BN0070-270300-008-h11 BN0070 Homo sapiens cDNA
11326	24017	37319	4.52	1.0E-100	AF111170.3	NT	Homo sapiens 14q32 Jagged2 gene, complete cds; and unknown gene
11326	24017	37320	4.52	1.0E-100	AF111170.3	NT	Homo sapiens 14q32 Jagged2 gene, complete cds; and unknown gene
11356	12830	25443	2.11	1.0E-100	AL163247.2	NT	Homo sapiens chromosome 21 segment HS21C047
11633	24230		1.59	1.0E-100	AW875464.1	EST_HUMAN	QV2-PT0012-010300-070-404 PT0012 Homo sapiens cDNA
11681	24276		1.48	1.0E-100	AF266285.1	NT	Homo sapiens golgin-like protein (GLP) gene, complete cds
11748	24340	37668	1.57	1.0E-100	AA115605.1	EST_HUMAN	z489a03.r1 Soares_pregnant_uterus_NbHPU Homo sapiens cDNA clone IMAGE:489964 5'
11749	24340	37669	1.57	1.0E-100	AA115605.1	EST_HUMAN	z489a03.r1 Soares_pregnant_uterus_NbHPU Homo sapiens cDNA clone IMAGE:489964 5'
11907	24471	37806	6.67	1.0E-100	AF240786.1	NT	Homo sapiens glutathione S-transferase theta 2 (GSTT2) and glutathione S-transferase theta 1 (GSTT1) genes, complete cds
12031	25278		1.51	1.0E-100	BF446549.1	EST_HUMAN	7q88h03.x1 NCI_CGAP_Lu24 Homo sapiens cDNA clone IMAGE: 3' similar to TR:Q21997 Q21997
12200	24668	31071	3.67	1.0E-100	11545732	NT	COSMID R151, [2] TR:Q9UA08 ;
12792	25044	30968	4.82	1.0E-100	11417974	NT	Homo sapiens SH3-domain binding protein 1 (SH3BP1), mRNA
75	12802	25539	1.75	1.0E-101	7110714	NT	Homo sapiens transcobalamin II; macrocytic anemia (TCN2), mRNA
75	12802	25540	1.75	1.0E-101	7110714	NT	Homo sapiens SEC14 (S. cerevisiae)-like 2 (SEC14L2), mRNA
671	13447	26087	1.82	1.0E-101	AB007815.2	NT	Homo sapiens SEC14 (S. cerevisiae)-like 2 (SEC14L2), mRNA
688	13463	26111	5.88	1.0E-101	7110734	NT	Homo sapiens mRNA for KIAA0446 protein, partial cds
688	13463	26112	5.88	1.0E-101	7110734	NT	Homo sapiens ventral anterior homeobox 2 (VAX2), mRNA
754	13526	26185	1.99	1.0E-101	7657454	NT	Homo sapiens ventral anterior homeobox 2 (VAX2), mRNA
833	13603	26273	1.5	1.0E-101	4503914	NT	Homo sapiens pscadillo (zebrafish) homolog 1, containing BRCT domain (PES1), mRNA
904	13671	26335	1.22	1.0E-101	Z20656.1	NT	Homo sapiens phosphoribosylglycinamide formyltransferase, phosphoribosylglycinamide synthetase,
964	13729	26396	14.26	1.0E-101	BF681218.1	EST_HUMAN	phosphoribosylaminoimidazole synthetase (GART) mRNA
1030	13790	26449	1.63	1.0E-101	A122187.1	EST_HUMAN	Homo sapiens of cardiac alpha-myosin heavy chain gene
1577	14324	27012	1.48	1.0E-101	5921460	NT	602156474F1 NIH_MGC_83 Homo sapiens cDNA clone IMAGE:4287291 5'
1577	14324	27013	1.46	1.0E-101	5921460	NT	qg99e09.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:4287291 5'
1740	14482	27182	1.52	1.0E-101	7662183	NT	Homo sapiens butyrophilin, subfamily 2, member A1 (BTN2A1), mRNA
1740	14482	27183	1.52	1.0E-101	7662183	NT	Homo sapiens butyrophilin, subfamily 2, member A1 (BTN2A1), mRNA
1938	14673	27399	1.62	1.0E-101	4502896	NT	Homo sapiens KIAA0568 gene product (KIAA0568), mRNA
2050	14783	27510	1.79	1.0E-101	BE843070.1	EST_HUMAN	Homo sapiens KIAA0569 gene product (KIAA0569), mRNA
2348	15592	27808	1.71	1.0E-101	5729892	NT	Homo sapiens carboxypeptidase A1 (pancreatic) (CPA1) mRNA
2620	15332	28076	2.8	1.0E-101	X72993.1	NT	RC3-ST0281-160600-016-109 ST0281 Homo sapiens cDNA
							Homo sapiens A kinase (PRKA) anchor protein 6 (AKAP6), mRNA
							H. sapiens EIVS gene, exon 5

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
2747	15452	28192	1.09	1.0E-101	AJ237744.1	NT	Homo sapiens RIBIR gene (partial), exon 12
2747	15452	28193	1.09	1.0E-101	AJ237744.1	NT	Homo sapiens RIBIR gene (partial), exon 12
2955	15721		13.73	1.0E-101	AJ252312.1	NT	Homo sapiens genomic downstream Rhesus box
3198	15981	28613	1.98	1.0E-101	4885270	NT	Homo sapiens gamma-glutamyltransferase 1 (GGT1) mRNA
3235	15997		2.27	1.0E-101	BF035327.1	EST_HUMAN	601458531F1 NIH_MGC_66 Homo sapiens cDNA clone IMAGE:3862086 5'
3375	16134	28790	1.93	1.0E-101	AW965566.1	EST_HUMAN	EST377629 MAGI ressequences, MAGI Homo sapiens cDNA
3395	15452	28192	1.49	1.0E-101	AJ237744.1	NT	Homo sapiens RIBIR gene (partial), exon 12
3395	15452	28193	1.49	1.0E-101	AJ237744.1	NT	Homo sapiens RIBIR gene (partial), exon 12
3857	16607	29245	3.69	1.0E-101	AB022785.1	NT	Homo sapiens ASH2L gene, complete cds, similar to Drosophila ash2 gene
4974	17697	30304	1.16	1.0E-101	5921460	NT	Homo sapiens butyrophilin, subfamily 2, member A1 (BTN2A1), mRNA
4974	17697	30305	1.16	1.0E-101	5921460	NT	Homo sapiens butyrophilin, subfamily 2, member A1 (BTN2A1), mRNA
5235	18041	30669	1.22	1.0E-101	AW965139.1	EST_HUMAN	EST377212 MAGI ressequences, MAGI Homo sapiens cDNA
5913	18698	31651	3.68	1.0E-101	7427512	NT	Homo sapiens cytoplasmic linker 2 (CYLN2), mRNA
5913	18698	31652	3.68	1.0E-101	7427512	NT	Homo sapiens cytoplasmic linker 2 (CYLN2), mRNA
6595	19358	32372	1.27	1.0E-101	11430734	NT	Homo sapiens carbonic anhydrase VII (CA7), mRNA
7173	19859		1.01	1.0E-101	11545780	NT	Homo sapiens hypothetical protein FLJ22087 (FLJ22087), mRNA
7220	19905	32977	5.57	1.0E-101	AF208970.1	NT	Homo sapiens Kruppel-type zinc finger protein (PEG3) mRNA, alternative splice form 4, partial cds
7220	19905	32978	5.57	1.0E-101	AF208970.1	NT	Homo sapiens Kruppel-type zinc finger protein (PEG3) mRNA, alternative splice form 4, partial cds
7376	20056	33136	7.48	1.0E-101	AW008475.1	EST_HUMAN	wv55f12.x1 NCI_CGAP_Gas4 Homo sapiens cDNA clone IMAGE:2533487 3'
7474	20147		1.79	1.0E-101	BE257384.1	EST_HUMAN	601109217F1 NIH_MGC_18 Homo sapiens cDNA clone IMAGE:3349801 5'
7623	20289	33398	7.43	1.0E-101	BF330759.1	EST_HUMAN	RC1-BT0313-220700-018-f12 BT0313 Homo sapiens cDNA
7813	20508	33631	0.84	1.0E-101	BE275821.1	EST_HUMAN	601121621F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:3345669 5'
7813	20508	33632	0.84	1.0E-101	BE275821.1	EST_HUMAN	601121621F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:3345669 5'
7954	20649	33772	2.88	1.0E-101	BF029174.1	EST_HUMAN	601764686F1 NIH_MGC_53 Homo sapiens cDNA clone IMAGE:3996837 5'
8221	20915	34050	0.67	1.0E-101	AW630070.1	EST_HUMAN	hh74g10.y1 NCI_CGAP_GU1 Homo sapiens cDNA clone IMAGE:2968578 5' similar to gb:J03143
8221	20915	34051	0.67	1.0E-101	AW630070.1	EST_HUMAN	INTERFERON-GAMMA RECEPTOR ALPHA CHAIN PRECURSOR (HUMAN);
8908	21599	34741	1.08	1.0E-101	AA036800.1	EST_HUMAN	hh74g10.y1 NCI_CGAP_GU1 Homo sapiens cDNA clone IMAGE:2968578 5' similar to gb:J03143
9229	21908	35080	0.83	1.0E-101	AB037772.1	NT	INTERFERON-GAMMA RECEPTOR ALPHA CHAIN PRECURSOR (HUMAN);
9229	21908	35081	0.83	1.0E-101	AB037772.1	NT	zic29g08.r1 Scores_pregnant_uterus_Nb1p1pU Homo sapiens cDNA clone IMAGE:471998 5' similar to
9362	20432	33553	17.13	1.0E-101	X60069.1	NT	P1R:S54640 S54640 YD9335.03c protein - yeast;
9362	20432	33554	17.13	1.0E-101	X60069.1	NT	Homo sapiens mRNA for KIAA1351 protein, partial cds
							Homo sapiens mRNA for KIAA1351 protein, partial cds
							Human mRNA for pancreatic gamma-glutamyltransferase
							Human mRNA for pancreatic gamma-glutamyltransferase

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
9375	21950	35123	17.01	1.0E-101	9845492	NT	Homo sapiens gamma-glutamyltransferase 1 (GGT1), transcript variant 3, mRNA
9657	22309	35506	6.24	1.0E-101	BE619667.1	EST_HUMAN	601472808T1 NIH_MGC_68 Homo sapiens cDNA clone IMAGE:3875953 3'
9657	22309	35507	6.24	1.0E-101	BE619667.1	EST_HUMAN	601472808T1 NIH_MGC_68 Homo sapiens cDNA clone IMAGE:3875953 3'
9794	22445	35650	0.72	1.0E-101	10863960	NT	Homo sapiens potassium channel, subfamily K, member 10 (KCNK10), mRNA
10308	22955	36171	1.49	1.0E-101	11429127	NT	Homo sapiens Janus kinase 2 (a protein tyrosine kinase) (JAK2), mRNA
10447	23093	36323	0.94	1.0E-101	BE973648.1	EST_HUMAN	601680825F1 NIH_MGC_83 Homo sapiens cDNA clone IMAGE:3950887 5'
10447	23093	36324	0.94	1.0E-101	BE973648.1	EST_HUMAN	601680825F1 NIH_MGC_83 Homo sapiens cDNA clone IMAGE:3950887 5'
10788	23471	36713	1.98	1.0E-101	S38327.1	NT	branched-chain alpha-keto acid dehydrogenase complex E1 alpha subunit [human, Genomic, 195 nt, segment 8 of 9]
11053	23723	36994	2.11	1.0E-101	AB020626.1	NT	Homo sapiens mRNA for KIAA0819 protein, partial cds
11398	24004	37307	2.06	1.0E-101	AI590078.1	EST_HUMAN	hm58c01.x1 NCJ_CGAP_Bm25 Homo sapiens cDNA clone IMAGE:2162304 3' similar to gb:M13361 HEPARIN-BINDING GROWTH FACTOR PRECURSOR 1 (HUMAN);
11398	24004	37308	2.06	1.0E-101	AI590078.1	EST_HUMAN	hm58c01.x1 NCJ_CGAP_Bm25 Homo sapiens cDNA clone IMAGE:2162304 3' similar to gb:M13361 HEPARIN-BINDING GROWTH FACTOR PRECURSOR 1 (HUMAN);
11763	24354	37696	1.31	1.0E-101	AI908168.1	EST_HUMAN	RC-BT163-290499-085 BT163 Homo sapiens cDNA
11763	24354	37697	1.31	1.0E-101	AI908168.1	EST_HUMAN	RC-BT163-290499-085 BT163 Homo sapiens cDNA
12461	24829	38485	13.68	1.0E-101	AW839051.1	EST_HUMAN	QV1-DT0068-240200-085-a01 DT0068 Homo sapiens cDNA
38	12866	25485	2	1.0E-102	AF012872.1	NT	Homo sapiens phosphatidylinositol 4-kinase 230 (pi4K230) mRNA, complete cds
332	13133	25767	4.35	1.0E-102	AL163303.2	NT	Homo sapiens chromosome 21 segment HS21C103
758	13530	26190	1.59	1.0E-102	4557534	NT	Homo sapiens down-regulated in adenoma (DRA) mRNA
1095	13853	26512	2.8	1.0E-102	M10976.1	NT	Human endogenous retroviral DNA (4-1), complete retroviral segment
1245	13994	26660	1.67	1.0E-102	11437146	NT	Homo sapiens solute carrier family 2 (facilitated glucose transporter), member 9 (SLC2A9), mRNA
1245	13994	26661	1.67	1.0E-102	11437146	NT	Homo sapiens solute carrier family 2 (facilitated glucose transporter), member 9 (SLC2A9), mRNA
1261	14010	26678	0.99	1.0E-102	4826977	NT	Homo sapiens reelin (RELN) mRNA
1398	14145	26823	119.7	1.0E-102	BE408447.1	EST_HUMAN	601269982F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3629901 5'
2307	15032	27769	1.88	1.0E-102	AI124669.1	EST_HUMAN	am60c10.x1 Johnston frontal cortex Homo sapiens cDNA clone IMAGE:1539954 3' similar to
2307	15032	27770	1.88	1.0E-102	AI124669.1	EST_HUMAN	am60c10.x1 Johnston frontal cortex Homo sapiens cDNA clone IMAGE:1539954 3' similar to
3061	15827	28472	1.32	1.0E-102	7661979	NT	SW:GG95_HUMAN Q08379 GOLGIN-95 ;
3130	15895	28538	4.76	1.0E-102	AU141005.1	EST_HUMAN	Homo sapiens KIAA0187 gene product (KIAA0187), mRNA
3130	15895	28539	4.76	1.0E-102	AU141005.1	EST_HUMAN	AU141005 PLACE4 Homo sapiens cDNA clone PLACE4000650 5'
4207	16948	29574	1.57	1.0E-102	AL163207.2	NT	Homo sapiens chromosome 21 segment HS21C007
4378	17115	29748	2.17	1.0E-102	BE251310.1	EST_HUMAN	601107843F1 NIH_MGC_16 Homo sapiens cDNA clone IMAGE:3343882 5'

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
5287	18092	30753	1.87	1.0E-102	AF067133.1	NT	Homo sapiens protein phosphatase-1 regulatory subunit 7 (PPP1R7) gene, exon 7
5663	18458		9.17	1.0E-102	AB034961.1	NT	Homo sapiens HSC54 mRNA for heat shock cognate protein 54, complete cds
5698	18492	31414	2.84	1.0E-102	7705398	NT	Homo sapiens histone deacetylase 7 (HDAC7), mRNA
5698	18492	31415	2.84	1.0E-102	7705398	NT	Homo sapiens histone deacetylase 7 (HDAC7), mRNA
5704	18498	31420	0.81	1.0E-102	11433046	NT	Homo sapiens hct domain and RLD 2 (HERC2), mRNA
6200	18976	31954	2.93	1.0E-102	A1459825.1	EST_HUMAN	ar82f09.x1 Barslead colon HPLRB7 Homo sapiens cDNA clone IMAGE:2151785 3' similar to TR:Q13137
7036	19728	32785	0.75	1.0E-102	BE728323.1	EST_HUMAN	Q13137 NDP52 :
7085	19756	32821	1.04	1.0E-102	BE386106.1	EST_HUMAN	601561605F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:3831241 5'
7265	19939	33014	8.23	1.0E-102	AJ238994.1	NT	601272715F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:3618243 5'
7524	20195	33288	2.48	1.0E-102	AV710738.1	EST_HUMAN	Homo sapiens mRNA for Centaurin-alpha2 protein
8122	20816	33952	3.91	1.0E-102	BE763051.1	EST_HUMAN	AV710738 Cu Homo sapiens cDNA clone CUAAKD03 5'
8201	20895	34032	1.32	1.0E-102	BE910555.1	EST_HUMAN	QV3-N70025-210600-236-H08 NT0025 Homo sapiens cDNA
8392	21085	34218	2.21	1.0E-102	AV694817.1	EST_HUMAN	601501107F1 NIH_MGC_70 Homo sapiens cDNA clone GKCEEE11 5'
8392	21085	34219	2.21	1.0E-102	AV694817.1	EST_HUMAN	AV694817 GK Homo sapiens cDNA clone GKCEEE11 5'
8501	21193	34335	1.19	1.0E-102	AB007923.1	NT	Homo sapiens mRNA for KIAA0454 protein, partial cds
8829	21521	34667	0.63	1.0E-102	BE388063.1	EST_HUMAN	601283770F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3605536 5'
8829	21521	34668	0.63	1.0E-102	BE388063.1	EST_HUMAN	601283770F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3605536 5'
9150	21881	35049	0.52	1.0E-102	A1762859.1	EST_HUMAN	wf63b06.x1 NCI_CGAP_Kid12 Homo sapiens cDNA clone IMAGE:2397971 3' similar to contains MER4.11
9181	21851	35017	0.81	1.0E-102	AV755842.1	EST_HUMAN	MER4 MER4 repetitive element :
9221	21900	35069	2.28	1.0E-102	T70393.1	EST_HUMAN	AV755842 BM Homo sapiens cDNA clone BMFAUD06 5'
9221	21900	35070	2.28	1.0E-102	T70393.1	EST_HUMAN	yd13d07.r1 Soares fetal liver spleen 1NFSL Homo sapiens cDNA clone IMAGE:67021 5'
9311	21978	35151	3.79	1.0E-102	AU124629.1	EST_HUMAN	yd13d07.r1 Soares fetal liver spleen 1NFSL Homo sapiens cDNA clone IMAGE:67021 5'
10281	22928		0.69	1.0E-102	AF153715.1	NT	AU124629 NT2RM4 Homo sapiens cDNA clone NT2RM4000309 5'
10367	23013	36228	3.67	1.0E-102	A1905037.1	EST_HUMAN	Homo sapiens phospholipid scramblase 1 gene, exon 1 and 5' flanking region
10367	23013	36229	3.67	1.0E-102	A1905037.1	EST_HUMAN	RC-BT074-260499-014 BT074 Homo sapiens cDNA
10428	23074	36295	1.24	1.0E-102	AA970786.1	EST_HUMAN	RC-BT074-260499-014 BT074 Homo sapiens cDNA
11008	23680	36937	2.56	1.0E-102	4507822	NT	on57n04.s1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:1560823 3' similar to SW:CAV2_HUMAN P51636 CAVEOLIN-2 [1] :
11008	23680	36938	2.56	1.0E-102	4507822	NT	Homo sapiens UDP glycosyltransferase 2 family, polypeptide B11 (UGT2B11) mRNA
11280	23951	37248	1.55	1.0E-102	AA868675.1	EST_HUMAN	Homo sapiens UDP glycosyltransferase 2 family, polypeptide B11 (UGT2B11) mRNA
11380	23987	37287	3.01	1.0E-102	BF359243.1	EST_HUMAN	ak49h10.s1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:1409347 3'

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
11710	24305	37631	3.57	1.0E-102	U41302.1	NT	Human chromosome 16 creatine transporter (SLC6A8) and (CDM) paralogous genes, complete cds
11911	24475		3.52	1.0E-102	AL163280.2	NT	Homo sapiens chromosome 21 segment HS21C080
12450	24820	31023	4.69	1.0E-102	AW300862.1	EST_HUMAN	xk07c12.x1 NCL CGAP_Co20 Homo sapiens cDNA clone IMAGE:2666038 3'
67	12895	25528	1.19	1.0E-103	BE908158.1	EST_HUMAN	601500405F1 NIH_MGC_70 Homo sapiens cDNA clone IMAGE:3902305 5'
67	12895	25528	1.19	1.0E-103	BE908158.1	EST_HUMAN	601500405F1 NIH_MGC_70 Homo sapiens cDNA clone IMAGE:3902305 5'
98	12824	25561	10.5	1.0E-103	D87078.2	NT	Homo sapiens mRNA for KIAA0235 protein, partial cds
203	13016	25666	1.45	1.0E-103	5453793	NT	Homo sapiens nuclear protein (KKE/D repeat) (NOP56) mRNA
960	13725	26389	0.79	1.0E-103	AJ278348.1	EST	Homo sapiens mRNA for pregnancy-associated plasma protein-E (PAPPE gene)
1221	13971	26643	10.23	1.0E-103	BE877541.1	EST_HUMAN	601485388F1 NIH_MGC_69 Homo sapiens cDNA clone IMAGE:3887876 5'
1591	14337	27026	3.76	1.0E-103	AF012872.1	NT	Homo sapiens phosphatidylinositol 4-kinase 230 (p4K230) mRNA, complete cds
1907	14644	27354	1.75	1.0E-103	7657592	NT	Homo sapiens sing GDS-ASSOCIATED PROTEIN (SMAP), mRNA
1968	14704	27420	1.44	1.0E-103	4502428	NT	Homo sapiens bone morphogenetic protein 8 (osteogenic protein 2) (BMP8) mRNA
1968	14704	27421	1.44	1.0E-103	4502428	NT	Homo sapiens bone morphogenetic protein 8 (osteogenic protein 2) (BMP8) mRNA
2303	15028	27765	1.15	1.0E-103	AU134991.1	EST_HUMAN	Homo sapiens bone morphogenetic protein 8 (osteogenic protein 2) (BMP8) mRNA
2452	15170	27909	1.33	1.0E-103	AF060568.1	NT	Homo sapiens promyelocytic leukemia zinc finger protein (PLZF) gene, complete cds
2603	15316	28055	1.23	1.0E-103	BF528379.1	EST_HUMAN	602041882F1 NCL CGAP_Bm67 Homo sapiens cDNA clone IMAGE:4179429 5'
2803	15316	28056	1.23	1.0E-103	BF528379.1	EST_HUMAN	602041882F1 NCL CGAP_Bm67 Homo sapiens cDNA clone IMAGE:4179429 5'
3064	15830		2.68	1.0E-103	BE744722.1	EST_HUMAN	601573113F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3834315 5'
3374	16133	28789	4.1	1.0E-103	AW298245.1	EST_HUMAN	U1-H-BW0-ajt-h-11-0-JJ.s1 NCL CGAP_Sub6 Homo sapiens cDNA clone IMAGE:2733165 3'
3433	16189	28837	0.89	1.0E-103	AB040892.1	NT	Homo sapiens mRNA for KIAA1459 protein, partial cds
3737	16490		8.55	1.0E-103	AF023861.1	NT	Macaca mulatta cyclophilin A mRNA, complete cds
3774	16526	29165	1.23	1.0E-103	AA485663.1	EST_HUMAN	ab10d12.s1 Strategene lung (#937210) Homo sapiens cDNA clone IMAGE:840407 3' similar to contains element LTR10 repetitive element;
3810	16562	29195	1.72	1.0E-103	11430876	NT	Homo sapiens neuropilin 1 (NRP1), mRNA
3985	16733	29367	3.47	1.0E-103	T23683.1	EST_HUMAN	seq340 b4HB3MA-Cot109+10-Bio Homo sapiens cDNA clone b4HB3MA-Cot109+10-Bio-7 3'
5844	18632	31567	0.96	1.0E-103	BF569527.1	EST_HUMAN	602186023F1 NIH_MGC_45 Homo sapiens cDNA clone IMAGE:4310573 5'
5852	18639	31577	2.62	1.0E-103	AF179955.1	NT	Homo sapiens septin 2 (SEPT2) mRNA, partial cds
6174	18951	31923	0.89	1.0E-103	11435053	NT	Homo sapiens KIAA0440 protein (KIAA0440), mRNA
6174	18951	31924	0.89	1.0E-103	11435053	NT	Homo sapiens KIAA0440 protein (KIAA0440), mRNA
6368	19137	32132	0.75	1.0E-103	AW954566.1	EST_HUMAN	EST3666336 MAGC resequences, MAGC Homo sapiens cDNA
6368	19137	32133	0.75	1.0E-103	AW954566.1	EST_HUMAN	EST3666336 MAGC resequences, MAGC Homo sapiens cDNA
6498	25092	32265	1.53	1.0E-103	AA781442.1	EST_HUMAN	aj26603.s1 Soares_tesit_NHT Homo sapiens cDNA clone 1391452 3'
6535	19301	32304	0.94	1.0E-103	AF053490.1	NT	Homo sapiens glycine receptor alpha 2 subunit (GLRA2) gene, exon 4

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
6618	19380	32398	1.48	1.0E-103	AI590071.1	EST_HUMAN	tm58b05.x1 NCL_CGAP_Bm25 Homo sapiens cDNA clone IMAGE:2162289 3' similar to TR:Q13769 Q13769 ANONYMOUS.
6618	19380	32397	1.48	1.0E-103	AI590071.1	EST_HUMAN	tm58b05.x1 NCL_CGAP_Bm25 Homo sapiens cDNA clone IMAGE:2162289 3' similar to TR:Q13769 Q13769 ANONYMOUS.
6747	17916	30579	1.53	1.0E-103	5032282	NT	Homo sapiens dystrophin (muscular dystrophy, Duchenne and Becker types), includes DXS164, DXS206, DXS230, DXS239, DXS268, DXS269, DXS270, DXS272 (DMD), transcript variant Dp427m, mRNA
6747	17916	30580	1.53	1.0E-103	5032282	NT	Homo sapiens dystrophin (muscular dystrophy, Duchenne and Becker types), includes DXS164, DXS206, DXS230, DXS239, DXS268, DXS269, DXS270, DXS272 (DMD), transcript variant Dp427m, mRNA
6872	17949	30544	1.27	1.0E-103	11431100	NT	Homo sapiens ribosomal protein L3-like (RPL3L), mRNA
6936	19670	32716	0.99	1.0E-103	AJ289880.1	NT	Homo sapiens KIAA0851 gene (partial), XT3 gene and LZTFL1 gene
7127	19815	32883	1.83	1.0E-103	AW965776.1	EST_HUMAN	EST377849 IMAGE resequences, MAGI Homo sapiens cDNA
7233	19918	32990	6.93	1.0E-103	BE748158.1	EST_HUMAN	801571537F1 NIH_MGC 55 Homo sapiens cDNA clone IMAGE:3838545 5'
7871	20335	33446	4.21	1.0E-103	AI590071.1	EST_HUMAN	tm58b05.x1 NCL_CGAP_Bm25 Homo sapiens cDNA clone IMAGE:2162289 3' similar to TR:Q13769 Q13769 ANONYMOUS.
7871	20335	33447	4.21	1.0E-103	AI590071.1	EST_HUMAN	tm58b05.x1 NCL_CGAP_Bm25 Homo sapiens cDNA clone IMAGE:2162289 3' similar to TR:Q13769 Q13769 ANONYMOUS.
8187	20881	34019	0.77	1.0E-103	T31080.1	EST_HUMAN	EST27193 Human Brain Homo sapiens cDNA 5' end similar to None
8519	21211	34354	2.22	1.0E-103	AU140344.1	EST_HUMAN	AU140344 PLACE2 Homo sapiens cDNA clone PLACE2000374 5'
8519	21211	34355	2.22	1.0E-103	AU140344.1	EST_HUMAN	AU140344 PLACE2 Homo sapiens cDNA clone PLACE2000374 5'
8604	21296	34439	1.1	1.0E-103	BF109244.1	EST_HUMAN	760e03.x1 Scores_NSF_F8_GW_OT_PA_P_S1 Homo sapiens cDNA clone IMAGE:3525964 3' similar to SW:PTNF_HUMAN Q18825 PROTEIN-TYROSINE PHOSPHATASE D1;
9005	21895	34845	2.86	1.0E-103	6005921	NT	Homo sapiens triple functional domain (PTPRF Interacting) (TRIO), mRNA
9005	21895	34846	2.86	1.0E-103	6005921	NT	Homo sapiens triple functional domain (PTPRF Interacting) (TRIO), mRNA
9046	21738	34891	1.16	1.0E-103	AA581088.1	EST_HUMAN	nd13c02.s1 NCL_CGAP_Ov1 Homo sapiens cDNA clone IMAGE:800162 3' similar to gb:U02426 26S PROTEASE SUBUNIT 4 (HUMAN);
9088	21777	34941	5.04	1.0E-103	AA774980.1	EST_HUMAN	ae84d12.s1 Stralagene schizo brain S11 Homo sapiens cDNA clone IMAGE:970871 3' similar to gb:X03747.cd1 SODIUMPOTASSIUM-TRANSPORTING ATPASE BETA-1 (HUMAN);
9182	21832	34995	0.56	1.0E-103	BE935842.1	EST_HUMAN	QV2-NN0045-230800-322-b03 NN0045 Homo sapiens cDNA
9182	21832	34996	0.56	1.0E-103	BE935842.1	EST_HUMAN	QV2-NN0045-230800-322-b03 NN0045 Homo sapiens cDNA
9958	22606	35811	1.44	1.0E-103	Z37976.1	NT	H. sapiens mRNA for latent transforming growth factor-beta binding protein (LTBP-2)
9999	22847	35859	1.99	1.0E-103	AW963676.1	EST_HUMAN	EST375749 IMAGE resequences, MAGH Homo sapiens cDNA

Table 4
Single Exon Probes Expressed in Brain

Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
10138	22786	35998	9.2	1.0E-103	A1878956.1	EST_HUMAN	au51g04.y1 Schneider fetal brain 00004 Homo sapiens cDNA clone IMAGE:2518326 5' similar to TR:O15046 O15046 KIAA0338 ;
10634	23326	36563	3.56	1.0E-103	A1792759.1	EST_HUMAN	cl02d08.y5 NCI CGAP Lu5 Homo sapiens cDNA clone IMAGE:1522283 5' similar to TR:Q62084 Q62084 PHOSPHOLIPASE C NEIGHBORING ;
10737	23424	36668	2.04	1.0E-103	11424061	NT	Homo sapiens AXL receptor tyrosine kinase (AXL), mRNA
10737	23424	36669	2.04	1.0E-103	11424061	NT	Homo sapiens AXL receptor tyrosine kinase (AXL), mRNA
10748	23434	36677	2.22	1.0E-103	AF149773.1	NT	Homo sapiens NOD1 protein (NOD1) gene, exons 1, 2, and 3
10748	23434	36678	2.22	1.0E-103	AF149773.1	NT	Homo sapiens NOD1 protein (NOD1) gene, exons 1, 2, and 3
10793	23476	36717	1.3	1.0E-103	X87831.2	NT	Homo sapiens mRNA for partial OCT1/plexin-A2 protein
10793	23476	36718	1.3	1.0E-103	X87831.2	NT	Homo sapiens mRNA for partial OCT1/plexin-A2 protein
11347	24037	37340	2.8	1.0E-103	AU138283.1	EST_HUMAN	AU138283 PLACE1 Homo sapiens cDNA clone PLACE1003923 5'
11423	23190	36421	10.74	1.0E-103	L43610.1	NT	Homo sapiens polycystic kidney disease (PKD1) gene, exons 27-30
11748	24339	37667	2.41	1.0E-103	BE644611.1	EST_HUMAN	7e68a10.x1 Soares_NSF_F8_9W_OT_PA_P_S1 Homo sapiens cDNA clone IMAGE:3287610 3' similar to contains MER29 t3 MER29 repetitive element ;
11937	24494		2.11	1.0E-103	11526291	NT	Homo sapiens hypothetical protein FLJ20454 (FLJ20454), mRNA
12128	24620	31091	2.83	1.0E-103	AB011399.1	NT	Homo sapiens gene for AF-6, complete cds
227	13039	26678	3.73	1.0E-104	AL037549.3	EST_HUMAN	DKFp564H1072.1 564 (synonym: hibr2) Homo sapiens cDNA clone DKFp564H1072 5'
227	13039	26677	3.73	1.0E-104	AL037549.3	EST_HUMAN	DKFp564H1072.1 564 (synonym: hibr2) Homo sapiens cDNA clone DKFp564H1072 5'
1881	14618	27328	2.18	1.0E-104	4502428	NT	Homo sapiens bone morphogenetic protein 8 (osteogenic protein 2) (BMP8) mRNA
2190	14919	27653	3.68	1.0E-104	AA132975.1	EST_HUMAN	zo22c06.s1 Striatogene colon (#937204) Homo sapiens cDNA clone IMAGE:587628 3' similar to gb:Z14116.mai CD59 GLYCOPROTEIN PRECURSOR (HUMAN);
2201	14929	27666	2.57	1.0E-104	BE744628.1	EST_HUMAN	601577460F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3926438 5'
2369	15091	27829	1.38	1.0E-104	BF334221.1	EST_HUMAN	RC1-CT0249-110900-214-F12 CT0249 Homo sapiens cDNA
2369	15091	27830	1.38	1.0E-104	BF334221.1	EST_HUMAN	RC1-CT0249-110900-214-F12 CT0249 Homo sapiens cDNA
2438	15188	27893	1.68	1.0E-104	5031570	NT	Homo sapiens ARP2 (actin-related protein 2, yeast) homolog (ACTR2), mRNA
2507	15224	27955	1.11	1.0E-104	7662125	NT	Homo sapiens KIAA0440 protein (KIAA0440), mRNA
2507	15224	27956	1.11	1.0E-104	7662125	NT	Homo sapiens KIAA0440 protein (KIAA0440), mRNA
2874	15641	28285	7.41	1.0E-104	M34671.1	NT	Human lymphocytic antigen CD59/MEM43 mRNA, complete cds
2917	15683		2.74	1.0E-104	Y11151.1	NT	H sapiens gene encoding phenylpyruvate tautomerase II
3386	16145		2.04	1.0E-104	AA319436.1	EST_HUMAN	EST121658 Adrenal gland tumor Homo sapiens cDNA 5' end
3587	16341	28996	0.79	1.0E-104	AB033102.1	NT	Homo sapiens mRNA for KIAA1276 protein, partial cds
3587	16341	28987	0.79	1.0E-104	AB033102.1	NT	Homo sapiens mRNA for KIAA1276 protein, partial cds
3924	16674	29315	0.76	1.0E-104	AB032998.1	NT	Homo sapiens mRNA for KIAA1172 protein, partial cds
4344	17083	29712	3.93	1.0E-104	X02761.1	NT	Human mRNA for fibronectin (FN precursor)

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Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
4570	17305	29932	1.23	1.0E-104	AF231920.1	NT	Homo sapiens chromosome 21 unknown mRNA
4570	17305	29933	1.23	1.0E-104	AF231920.1	NT	Homo sapiens chromosome 21 unknown mRNA
5106	17824	30441	1.06	1.0E-104	7657038	NT	Homo sapiens death receptor 6 (DR6), mRNA
5850	18637	31573	1.26	1.0E-104	U43379.1	NT	Human Down Syndrome region of chromosome 21 DNA
5850	18637	31574	1.26	1.0E-104	U43379.1	NT	Human Down Syndrome region of chromosome 21 DNA
5897	18682	31630	1.12	1.0E-104	AB017332.1	NT	Homo sapiens alk3 mRNA for Auroralp11-related kinase 3, complete cds
6375	19144	32141	9.51	1.0E-104	A1768797.1	EST_HUMAN	KIAA0132 PROTEIN, contains element LTR7 repetitive element ;
6375	19144	32142	9.51	1.0E-104	A1768797.1	EST_HUMAN	WJ03512.X1 NCI_CGAP_Kid12 Homo sapiens cDNA clone IMAGE:2401727 3' similar to TR:Q14145 Q14145
6551	19316	32322	0.75	1.0E-104	7708512	NT	KIAA0132 PROTEIN, contains element LTR7 repetitive element ;
6706	19621	32663	3.31	1.0E-104	BE314182.1	EST_HUMAN	Homo sapiens PDZ domain-containing guanine nucleotide exchange factor 1 (LOC51735), mRNA
6706	19621	32664	3.31	1.0E-104	BE314182.1	EST_HUMAN	601150451F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:3503220 5'
7125	19813	32881	2.03	1.0E-104	11425572	NT	601150451F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:3503220 5'
8495	21187	34330	0.83	1.0E-104	BF509244.1	EST_HUMAN	Homo sapiens adaptor-related protein complex 2, beta 1 subunit (AP2B1), mRNA
9065	21754	34915	5.23	1.0E-104	BF448230.1	EST_HUMAN	U1-H-B14-acw-b-09-0-U1.s1 NCI_CGAP_Sub8 Homo sapiens cDNA clone IMAGE:3086176 3'
9163	21833	34997	0.5	1.0E-104	AA682308.1	EST_HUMAN	z198b05.s1 Soares_fetal_liver_spleen_1NFLS_S1 Homo sapiens cDNA clone IMAGE:3365948 3'
9184	21854		1.31	1.0E-104	T74219.1	EST_HUMAN	yc83102.r1 Soares_infant_brain_1NIB Homo sapiens cDNA clone IMAGE:462897 3'
9214	21893	35060	4.27	1.0E-104	AF091395.1	NT	Homo sapiens Trio isoform mRNA, complete cds
9214	21893	35061	4.27	1.0E-104	AF091395.1	NT	Homo sapiens Trio isoform mRNA, complete cds
9341	20412	33529	4.4	1.0E-104	BF352841.1	EST_HUMAN	IL3-HT0619-080900-249-F07 HT0619 Homo sapiens cDNA
9341	20412	33530	4.4	1.0E-104	BF352841.1	EST_HUMAN	IL3-HT0619-080900-249-F07 HT0619 Homo sapiens cDNA
9654	22306	35503	0.85	1.0E-104	AW103848.1	EST_HUMAN	xd76d02.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2603523 3' similar to TR:Q24116
9654	22306	35504	0.85	1.0E-104	AW103848.1	EST_HUMAN	Q24116 HYPOTHETICAL 29.4 KD PROTEIN ;
9847	22497	35698	0.71	1.0E-104	AF113514.1	NT	Q24116 HYPOTHETICAL 29.4 KD PROTEIN ;
9993	22641	35852	2.83	1.0E-104	BE791713.1	EST_HUMAN	Homo sapiens histone acetyltransferase MORF mRNA, complete cds
9993	22641	35853	2.83	1.0E-104	BE791713.1	EST_HUMAN	601581503F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3935977 5'
10299	22946	36160	1.29	1.0E-104	AV728070.1	EST_HUMAN	601581503F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3935977 5'
10339	22986	36204	4.51	1.0E-104	AU130765.1	EST_HUMAN	AV728070 HTG Homo sapiens cDNA clone HTCBYA07 5'
10450	23096	36327	4.41	1.0E-104	AU130765.1	EST_HUMAN	AU130765 NT2RP3 Homo sapiens cDNA clone NT2RP3001398 5'
10464	23110		0.92	1.0E-104	U66535.1	NT	Human beta4-integrin (ITGB4) gene, exons 19,20,21,22,23,24 and 25
11268	23930	37221	2.07	1.0E-104	BE720191.1	EST_HUMAN	Homo sapiens KIAA0649 gene product (KIAA0649), mRNA
					11427757	NT	RCO-HT0885-310700-021-b09 HT0885 Homo sapiens cDNA

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
11268	23930	37222	2.07	1.0E-104	BE720191.1	EST_HUMAN	RCO-HT0885-310700-021-b09 HT0885 Homo sapiens cDNA
11299	23959	37259	4.96	1.0E-104	BF684288.1	EST_HUMAN	602141215F1 NIH_MGC_46 Homo sapiens cDNA clone IMAGE:4302507 5'
11590	24189	37505	1.75	1.0E-104	BE731976.1	EST_HUMAN	601568806F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3841681 5'
11590	24189	37506	1.75	1.0E-104	BE731976.1	EST_HUMAN	601568806F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3841681 5'
11791	24381	37712	1.42	1.0E-104	11434729	NT	Homo sapiens ribosomal protein S6 kinase, 90kD, polypeptide 5 (RPS6KA5), mRNA
12702	24982		2.38	1.0E-104	BE33892.1	EST_HUMAN	601312181F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3658676 5'
272	15514	25722	11.13	1.0E-105	4502166	NT	Homo sapiens amyloid beta (A4) precursor protein (protease nexin-II, Alzheimer disease) (APP), mRNA
416	12827	25440	8.99	1.0E-105	4505150	NT	Homo sapiens Meis1 (mouse) homolog (MEIS1) mRNA
580	13360	25987	1.92	1.0E-105	AF032897.1	NT	Homo sapiens potassium channel subunit (HERG-3) mRNA, complete cds
580	13360	25988	1.92	1.0E-105	AF032897.1	NT	Homo sapiens potassium channel subunit (HERG-3) mRNA, complete cds
1814	14554	27269	0.91	1.0E-105	AL163280.2	NT	Homo sapiens chromosome 21 segment HS21C080
1919	14658	27368	1.93	1.0E-105	D50918.1	NT	Human mRNA for KIAA0128 gene, partial cds
2186	14915	27649	1.29	1.0E-105	AA318369.1	EST_HUMAN	EST20609 Spleen 1 Homo sapiens cDNA 5' and similar to autoimmune antigen Ku, p70/p80 subunit
2322	15047		1.44	1.0E-105	BE891766.1	EST_HUMAN	601434491F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3919511 5'
3006	15772		2.89	1.0E-105	AJ229041.1	NT	Homo sapiens 959 kb contig between AML1 and CBR1 on chromosome 21q22, segment 1/3
3346	16105	28759	0.88	1.0E-105	7304922	NT	Homo sapiens bromodomain adjacent to zinc finger domain, 2B (BAZ2B), mRNA
3346	16105	28760	0.88	1.0E-105	7304922	NT	Homo sapiens bromodomain adjacent to zinc finger domain, 2B (BAZ2B), mRNA
4077	16821	29447	2.07	1.0E-105	AW961688.1	EST_HUMAN	EST373781 IMAGE resequences, MAGG Homo sapiens cDNA
4694	17428	30058	0.74	1.0E-105	BE868881.1	EST_HUMAN	601445823F1 NIH_MGC_65 Homo sapiens cDNA clone IMAGE:3850156 5'
4694	17428	30059	0.74	1.0E-105	BE868881.1	EST_HUMAN	601445823F1 NIH_MGC_65 Homo sapiens cDNA clone IMAGE:3850156 5'
4886	17613		4.24	1.0E-105	AL163208.2	NT	Homo sapiens chromosome 21 segment HS21C008
5043	17762	30377	1.16	1.0E-105	AB018339.1	NT	Homo sapiens mRNA for KIAA0766 protein, partial cds
5091	17810	30426	0.94	1.0E-105	AW96015.1	EST_HUMAN	EST378088 IMAGE resequences, MAGI Homo sapiens cDNA
5247	18053	30661	0.86	1.0E-105	AF016704.1	NT	Homo sapiens E6-AP ubiquitin-protein ligase (UBE3A) gene, exon 2
5312	18116		1.07	1.0E-105	11420134	NT	Homo sapiens Retina-derived POU-domain factor-1 (RPF-1), mRNA
6804	19465	32485	2.16	1.0E-105	BF314302.1	EST_HUMAN	601901028F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:4130334 5'
6804	19465	32486	2.16	1.0E-105	BF314302.1	EST_HUMAN	601901028F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:4130334 5'
6885	17961	30515	3.65	1.0E-105	11419196	NT	Homo sapiens GTPase activating protein-like (GAPL), mRNA
6885	17961	30516	3.65	1.0E-105	11419196	NT	Homo sapiens GTPase activating protein-like (GAPL), mRNA
6927	19663	32709	0.83	1.0E-105	AW951834.1	EST_HUMAN	EST363689 IMAGE resequences, MAGB Homo sapiens cDNA
7184	19870	32944	0.59	1.0E-105	BE902816.1	EST_HUMAN	601677279F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3960019 5'
7722	20386	33500	0.65	1.0E-105	6806894	NT	Homo sapiens plakophilin 4 (PKP4), mRNA
7758	20454	33578	0.97	1.0E-105	X12556.1	NT	Human mRNA for dbl proto-oncogene

Table 4

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
7927	20622	33750	6.55	1.0E-105	T05087.1	EST_HUMAN	EST02075 Fetal brain, Stragelene (cat#936208) Homo sapiens cDNA clone HFCR32
8297	20991	34129	1.41	1.0E-105	AW007194.1	EST_HUMAN	ws50c10.x1 NCI_CGAP_Bm25 Homo sapiens cDNA clone IMAGE:2500826 3' similar to
8826	21518	34663	0.68	1.0E-105	AW840817.1	EST_HUMAN	SW:ACSA_PENCH P36333 ACETYL-COENZYME A SYNTHETASE ;
8948	21639	34786	2.82	1.0E-105	AW016879.1	EST_HUMAN	RC1-CN0008-070100-011-e05 CN0008 Homo sapiens cDNA
9103	21791	34954	0.9	1.0E-105	AW882372.1	EST_HUMAN	UHH-B10p-ab1-b-12-0-UJ.s1 NCI_CGAP_Sub2 Homo sapiens cDNA clone IMAGE:2711782 3'
9103	21791	34955	0.9	1.0E-105	AW882372.1	EST_HUMAN	QV2-OT0062-140300-083-009 OT0062 Homo sapiens cDNA
9467	22077	35247	0.88	1.0E-105	BE867793.1	EST_HUMAN	601443755F1 NIH_MGC_65 Homo sapiens cDNA clone IMAGE:3847884 5'
9467	22077	35248	0.68	1.0E-105	BE867793.1	EST_HUMAN	601443755F1 NIH_MGC_65 Homo sapiens cDNA clone IMAGE:3847884 5'
10850	23531	36778	5.73	1.0E-105	AF254822.1	NT	Homo sapiens SMARCA4 isoform (SMARCA4) gene, complete cds, alternatively spliced
11195	23860	37146	1.59	1.0E-105	D63548.1	NT	Homo sapiens COL4A8 gene for $\alpha 1(V)$ collagen, exon 31
11250	23912	37204	2.38	1.0E-105	7705936	NT	Homo sapiens Ran binding protein 11 (LOC51194), mRNA
11580	24179	37494	2.58	1.0E-105	AW027554.1	EST_HUMAN	w74707.x1 Soares_thymus_NH1F11 Homo sapiens cDNA clone IMAGE:2535301 3' similar to TR:P87892
11675	24270	37592	1.43	1.0E-105	BF430921.1	EST_HUMAN	P87892 PROTEASE ;
11831	24415	37753	1.73	1.0E-105	AB004924.1	NT	7c18c10.x1 NCI_CGAP_Kid11 Homo sapiens cDNA clone IMAGE:3574291 3' similar to TR:P97680 P97680
11831	24415	37754	1.73	1.0E-105	AB004924.1	NT	RIN1 ;
147	12682		1.39	1.0E-106	AW503208.1	EST_HUMAN	Homo sapiens gene for Smad3, exon 2 and 3
200	13013	25654	1.79	1.0E-106	AI565065.1	EST_HUMAN	Homo sapiens gene for Smad3, exon 2 and 3
529	13313	25947	2.68	1.0E-106	AI565065.1	EST_HUMAN	U1-HF-BN0-akt-g-07-Q-UJ.r1 NIH_MGC_50 Homo sapiens cDNA clone IMAGE:3078348 5'
591	13371	26000	0.75	1.0E-106	J00146.1	NT	U1-HF-BN0-akt-g-07-Q-UJ.r1 NIH_MGC_50 Homo sapiens cDNA clone IMAGE:2215008 3'
592	13371	26000	0.75	1.0E-106	J00146.1	NT	EST377629 MAGE resequences, MAGI Homo sapiens cDNA
1515	14262	26948	2.06	1.0E-106	J00146.1	NT	Human dihydrofolate reductase pseudogene (psi-hd1)
1515	14262	26948	1.33	1.0E-106	AF145712.1	NT	Human dihydrofolate reductase pseudogene (psi-hd1)
1697	14440	27138	3.48	1.0E-106	U48724.1	NT	Human epidermal growth factor receptor (EGFR) precursor-mRNA, exon 4, partial cds
1796	14536	27245	4.71	1.0E-106	AA527446.1	EST_HUMAN	Human epidermal growth factor receptor (EGFR) precursor-mRNA, exon 4, partial cds
1796	14536	27246	4.71	1.0E-106	AA527446.1	EST_HUMAN	ng41c05.s1 NCI_CGAP_Co3 Homo sapiens cDNA clone IMAGE:937352 3' similar to contains element
2118	14849	27578	2.31	1.0E-106	BE144286.1	EST_HUMAN	LTR3 repetitive element ;
2315	15040	27778	2.89	1.0E-106	4504184	NT	LTR3 repetitive element ;
2610	15322	28084	1.82	1.0E-106	BE260201.1	EST_HUMAN	MR0-HT0165-140200-008-d10 HT0165 Homo sapiens cDNA
2761	15466	28210	3.24	1.0E-106	A1276528.1	EST_HUMAN	Homo sapiens glutathione S-transferase theta 1 (GSTT1), mRNA
2828	14159	28842	1.91	1.0E-106	4504184	NT	601149783F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:3502461 5'
							q176h10.x1 Soares_NhlMPu_S1 Homo sapiens cDNA clone IMAGE:1878307 3'
							Homo sapiens glutathione S-transferase theta 1 (GSTT1), mRNA

Table 4
Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
2828	14159	28843	1.91	1.0E-106	4504184	NT	Homo sapiens glutathione S-transferase theta 1 (GSTT1), mRNA
2942	15707	28357	5.23	1.0E-106	AB037747.1	NT	Homo sapiens mRNA for KIAA1326 protein, partial cds
2942	15707	28358	5.23	1.0E-106	AB037747.1	NT	Homo sapiens mRNA for KIAA1326 protein, partial cds
3176	15939	28588	2.18	1.0E-106	8922965	NT	Homo sapiens hypothetical protein FLJ11273 (FLJ11273), mRNA
3176	15939	28589	2.18	1.0E-106	8922965	NT	Homo sapiens hypothetical protein FLJ11273 (FLJ11273), mRNA
3367	16126	28784	0.81	1.0E-106	AB008681.1	NT	Homo sapiens gene for activin receptor type IIB, complete cds
3434	16190	28836	1.18	1.0E-106	AB033104.1	NT	Homo sapiens mRNA for KIAA1278 protein, partial cds
3434	16190	28839	1.18	1.0E-106	AB033104.1	NT	Homo sapiens mRNA for KIAA1278 protein, partial cds
4017	16763	28391	7.95	1.0E-106	AW974850.1	EST_HUMAN	EST388875 MAGN resequences, MAGN Homo sapiens cDNA
4017	16763	28392	7.95	1.0E-106	AW974850.1	EST_HUMAN	EST388875 MAGN resequences, MAGN Homo sapiens cDNA
4035	16780	29410	1.05	1.0E-106	5729729	NT	Homo sapiens API5-like 1 (API5L1), mRNA
4562	17297	29924	1.4	1.0E-106	BE144286.1	EST_HUMAN	MRO-HT0165-140200-008-410 HT0165 Homo sapiens cDNA
5135	17853	30489	1.09	1.0E-106	AL050253.1	NT	H. sapiens mRNA similar to D29763 mouse mRNA for seizure-related gene product 6. Shares domains with BMPs, Tollid, Sushi repeat proteins
5135	17853	30470	1.09	1.0E-106	AL050253.1	NT	H. sapiens mRNA similar to D29763 mouse mRNA for seizure-related gene product 6. Shares domains with BMPs, Tollid, Sushi repeat proteins
5285	18090	30750	2.81	1.0E-106	AA781155.1	EST_HUMAN	al24b09.s1 Soares testis_NHT Homo sapiens cDNA clone 1391225 3' similar to gb:X12433 PROTEIN
5764	18555	31480	0.58	1.0E-106	AU130113.1	EST_HUMAN	PHPS1-2 (HUMAN);
5764	18555	31481	0.58	1.0E-106	AU130113.1	EST_HUMAN	PHPS1-2 (HUMAN);
5816	18605	31533	0.58	1.0E-106	AA434168.1	EST_HUMAN	AU130113 NT2RP3 Homo sapiens cDNA clone NT2RP3000274 5'
5904	18689	31637	1.3	1.0E-106	AU143428.1	EST_HUMAN	AU130113 NT2RP3 Homo sapiens cDNA clone NT2RP3000274 5'
5904	18689	31638	1.3	1.0E-106	AU143428.1	EST_HUMAN	zw28d12.s1 Soares testis_NHT Homo sapiens cDNA clone IMAGE:770615 3'
6011	18792	31755	4.89	1.0E-106	BF679574.1	EST_HUMAN	AU143428 Y79AA1 Homo sapiens cDNA clone Y79AA1001912 5'
6303	18892	31860	0.77	1.0E-106	BE897112.1	EST_HUMAN	AU143428 Y79AA1 Homo sapiens cDNA clone Y79AA1001912 5'
6325	19095	32083	17.66	1.0E-106	BE897112.1	EST_HUMAN	602154012F1 NIH_MGC_83 Homo sapiens cDNA clone IMAGE:4295087 5'
6325	19095	32084	17.66	1.0E-106	BE897112.1	EST_HUMAN	601436670F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3924641 5'
7271	19955	33031	5.16	1.0E-106	AA663779.1	EST_HUMAN	Homo sapiens xycosyltransferase II (XT2), mRNA
7324	20007	33084	5.33	1.0E-106	11429617	NT	ae72e07 s1 Stralagene echizo brain S11 Homo sapiens cDNA clone IMAGE:869732 3' similar to gb:X65873
7402	20080	33161	1.21	1.0E-106	BE292722.1	EST_HUMAN	KINESIN HEAVY CHAIN (HUMAN);
7511	20182	33275	9.29	1.0E-106	11425503	NT	Homo sapiens XPMC2 protein (LOC57109), mRNA
7511	20182	33276	9.29	1.0E-106	11425503	NT	601105736F1 NIH_MGC_15 Homo sapiens cDNA clone IMAGE:2988345 5'
7714	20378	33491	0.67	1.0E-106	AU116850.1	EST_HUMAN	Homo sapiens sorting nexin 11 (SNX11), mRNA
							Homo sapiens sorting nexin 11 (SNX11), mRNA
							AU116850 HEMBA1 Homo sapiens cDNA clone HEMBA1000129 5'

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
7884	20579	33707	6.44	1.0E-106	BE741408.1	EST_HUMAN	601594331F1 NIH_MGC 9 Homo sapiens cDNA clone IMAGE:3948463 5'
7884	20579	33708	6.44	1.0E-106	BE741408.1	EST_HUMAN	601594331F1 NIH_MGC 9 Homo sapiens cDNA clone IMAGE:3948463 5'
8074	20768	33937	1.38	1.0E-106	AI523066.1	EST_HUMAN	ar08a07.x1 Barstead aorta HPLRB6 Homo sapiens cDNA clone IMAGE:2127732 3' similar to gb:X06233
8527	21219	34381	0.47	1.0E-106	BE387950.1	EST_HUMAN	CALGRANULIN B (HUMAN);
8527	21219	34382	0.47	1.0E-106	BE387950.1	EST_HUMAN	601282717F1 NIH_MGC 44 Homo sapiens cDNA clone IMAGE:3604493 5'
8807	21299	34443	3.64	1.0E-106	AI654123.1	EST_HUMAN	601282717F1 NIH_MGC 44 Homo sapiens cDNA clone IMAGE:3604493 5'
8950	21641	34788	0.58	1.0E-106	AW538331.1	EST_HUMAN	Q05084 69 KD ISLET CELL AUTOANTIGEN;
9046	21735	34889	3.28	1.0E-106	AA825307.1	EST_HUMAN	601282717F1 NIH_MGC 44 Homo sapiens cDNA clone IMAGE:2283632 3' similar to SW:ICA6_HUMAN
9045	21735	34890	3.28	1.0E-106	AA825307.1	EST_HUMAN	601282717F1 NIH_MGC 44 Homo sapiens cDNA clone IMAGE:2283632 3' similar to SW:ICA6_HUMAN
9186	21856	35021	1.26	1.0E-106	AI750447.1	EST_HUMAN	cn03a04.y1 Normal Human Trabecular Bone Cells Homo sapiens cDNA clone NHTBC_cn03a04 random
9329	21986	35169	1.8	1.0E-106	AI479569.1	EST_HUMAN	tm41f02.x1 NCI_CGAP_Kid11 Homo sapiens cDNA clone IMAGE:2160699 3' similar to contains MSR1.13
9329	21986	35170	1.8	1.0E-106	AI479569.1	EST_HUMAN	TAR1 PTR5 repetitive element;
9902	22551	35746	1.19	1.0E-106	BE389234.1	EST_HUMAN	tm41f02.x1 NCI_CGAP_Kid11 Homo sapiens cDNA clone IMAGE:2160699 3' similar to contains MSR1.13
9984	22632	35841	1.09	1.0E-106	BF027310.1	EST_HUMAN	TAR1 PTR5 repetitive element;
9984	22632	35842	1.09	1.0E-106	BF027310.1	EST_HUMAN	601282367F1 NIH_MGC 44 Homo sapiens cDNA clone IMAGE:3604217 5'
10141	22789	36003	6.22	1.0E-106	AA604417.1	EST_HUMAN	601671674F1 NIH_MGC 20 Homo sapiens cDNA clone IMAGE:3954403 5'
10141	22789	36004	6.22	1.0E-106	AA604417.1	EST_HUMAN	601671674F1 NIH_MGC 20 Homo sapiens cDNA clone IMAGE:3954403 5'
10185	22833	36047	1.6	1.0E-106	AW363299.1	EST_HUMAN	np57b10.s1 NCI_CGAP_Br2 Homo sapiens cDNA clone IMAGE:1130395 3'
10358	23005	36222	0.53	1.0E-106	AL038886.1	EST_HUMAN	RC0-CT0318-201199-031-at1 CT0318 Homo sapiens cDNA
10479	23125	36354	2.81	1.0E-106	AL183202.2	NT	DKFZp434F0712.1 434 (synonym: hlec3) Homo sapiens cDNA clone DKFZp434F0712 5'
10812	23495	36730	7.1	1.0E-106	BF032755.1	EST_HUMAN	Homo sapiens chromosome 21 segment HS21C002
10812	23495	36731	7.1	1.0E-106	BF032755.1	EST_HUMAN	601453461F1 NIH_MGC 66 Homo sapiens cDNA clone IMAGE:3857366 5'
10995	23668	36925	2.22	1.0E-106	J05200.1	NT	601453461F1 NIH_MGC 66 Homo sapiens cDNA clone IMAGE:3857366 5'
10995	23668	36926	2.22	1.0E-106	J05200.1	NT	Human tyrosine receptor mRNA, complete cds
11384	23991	37292	1.91	1.0E-106	BE297385.1	EST_HUMAN	Human tyrosine receptor mRNA, complete cds
11384	24132	37436	1.35	1.0E-106	BE010892.1	EST_HUMAN	601109219F1 NIH_MGC 16 Homo sapiens cDNA clone IMAGE:3349997 5'
11532	24132	37437	1.35	1.0E-106	BE010892.1	EST_HUMAN	RC5-BN0192-100500-021-B02 BN0192 Homo sapiens cDNA
11981	25194		6.77	1.0E-106	AW410405.1	EST_HUMAN	RC5-BN0192-100500-021-B02 BN0192 Homo sapiens cDNA
12183	24864	31068	3.32	1.0E-106	BE894488.1	EST_HUMAN	fr05h11.x1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:2961644 5'
							601433087F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3918524 5'

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
12183	24684	31089	3.32	1.0E-106	BE894488.1	EST_HUMAN	601433087F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3918524 5'
12408	24791		4.6	1.0E-106	BE695905.1	EST_HUMAN	RC1-CT0249-090800-024-d05 CT0249 Homo sapiens cDNA
228	13040		4.42	1.0E-107	AJ271735.1	NT	Homo sapiens Xq pseudautosomal region; segment 1/2
258	13068		1.28	1.0E-107	X60459.1	NT	Human IFNAR gene for interferon alpha/beta receptor
607	13385		4.03	1.0E-107	4826863	NT	Homo sapiens neuronal cell adhesion molecule (NRCAM) mRNA
616	13394	26028	1.89	1.0E-107	AF155103.1	NT	Homo sapiens NY-REN-25 antigen mRNA, partial cds
888	13635	26305	1.52	1.0E-107	X60459.1	NT	Human IFNAR gene for interferon alpha/beta receptor
948	13714	26379	11.55	1.0E-107	AF154121.1	NT	Homo sapiens sodium-dependent high-affinity dicarboxylate transporter (NADC3) mRNA, complete cds
1255	14004	26873	0.73	1.0E-107	AB032253.1	NT	Homo sapiens BAZ1B mRNA for bromodomain adjacent to zinc finger domain 1B, complete cds
1562	14309	26898	3.77	1.0E-107	BF087406.1	EST_HUMAN	QV2-HT0540-120900-358-a05 HT0540 Homo sapiens cDNA
1748	14488	27187	1.55	1.0E-107	AF138276.1	NT	Homo sapiens cathepsin Z precursor (CTS2) gene, exon 3
1832	14571	27283	0.99	1.0E-107	AB007922.2	NT	Homo sapiens mRNA for KIAA0453 protein, partial cds
1832	14571	27284	0.99	1.0E-107	AB007922.2	NT	Homo sapiens mRNA for KIAA0453 protein, partial cds
2205	14933	27671	0.95	1.0E-107	U13728.1	NT	Human dipeptidyl peptidase IV (CD26) gene, exon 20
2362	15084	27822	1.45	1.0E-107	AW842451.1	EST_HUMAN	PM1-CN0031-190100-001-d03 CN0031 Homo sapiens cDNA
2362	15084	27823	1.46	1.0E-107	AW842451.1	EST_HUMAN	PM1-CN0031-190100-001-d03 CN0031 Homo sapiens cDNA
2535	15250	27891	1.2	1.0E-107	BE732460.1	EST_HUMAN	601567619F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3842309 5'
2535	15250	27992	1.2	1.0E-107	BE732460.1	EST_HUMAN	601567619F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3842309 5'
3007	15773	28421	3.89	1.0E-107	AW842451.1	EST_HUMAN	PM1-CN0031-190100-001-d03 CN0031 Homo sapiens cDNA
3007	15773	28422	3.89	1.0E-107	AW842451.1	EST_HUMAN	PM1-CN0031-190100-001-d03 CN0031 Homo sapiens cDNA
3096	15861	28502	2.63	1.0E-107	5902087	NT	Homo sapiens SMT3 (suppressor of mit two 3, yeast) homolog 2 (SMT3H2), mRNA
3806	16558	29190	5.14	1.0E-107	AF020671.1	NT	Homo sapiens myotubularin (MTM1) gene, exon 9
5537	18335	31242	0.66	1.0E-107	AW969038.1	EST_HUMAN	EST381115 IMAGE resequencing, MAGK Homo sapiens cDNA
5775	18566	31495	3.2	1.0E-107	BE887489.1	EST_HUMAN	601442558F1 NIH_MGC_65 Homo sapiens cDNA clone IMAGE:3846494 5'
6823	19484	32508	1.45	1.0E-107	11431469	NT	Homo sapiens general transcription factor IIIC, polypeptide 1 (alpha subunit, 220kD) (GTF3C1), mRNA
6823	19484	32507	1.45	1.0E-107	11431469	NT	Homo sapiens general transcription factor IIIC, polypeptide 1 (alpha subunit, 220kD) (GTF3C1), mRNA
7263	19947	33023	1.42	1.0E-107	AW503913.1	EST_HUMAN	UJ-HF-BN0-aif-c-08-0-UJ17 NIH_MGC_50 Homo sapiens cDNA clone IMAGE:3079310 5'
7263	19947	33024	1.42	1.0E-107	AW503913.1	EST_HUMAN	UJ-HF-BN0-aif-c-08-0-UJ17 NIH_MGC_50 Homo sapiens cDNA clone IMAGE:3079310 5'
7429	20106	33193	1.46	1.0E-107	AJ765078.1	EST_HUMAN	wh56h04.x1 NCI CGAP_Kid11 Homo sapiens cDNA clone IMAGE:2884791 3'
7690	20354	33469	0.6	1.0E-107	AW410981.1	EST_HUMAN	fh08d11.x2 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:2964524 5'
9287	22041	35213	0.95	1.0E-107	AU122469.1	EST_HUMAN	AU122468 MAMMA1 Homo sapiens cDNA clone MAMMA1002433 5'

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
10803	23297	36537	3.18	1.0E-107	AI392850.1	EST_HUMAN	ig10406.x1 NCI CGAP_C11.1 Homo sapiens cDNA clone IMAGE:2108363 3' similar to SW:AACT_DICDI
10866	23546	36784	14.26	1.0E-107	L49141.1	NT	P05095 ALPH-A-ACTININ 3, NON MUSCULAR;
10880	23560	36807	1.71	1.0E-107	BF66511.1	EST_HUMAN	Homo sapiens neuroendocrine-specific protein (NSP) gene, exon 4
11293	23954	37252	6.66	1.0E-107	BE540350.1	EST_HUMAN	602123953F1 NIH_MGC_56 Homo sapiens cDNA clone IMAGE:4281039 5'
11367	23178	36405	5.97	1.0E-107	11419701	NT	60106681F1 NIH_MGC_10 Homo sapiens cDNA clone IMAGE:3452823 5'
11367	23178	36408	5.97	1.0E-107	11419701	NT	Homo sapiens HSPC049 protein (HSPC049), mRNA
11843	24427	37768	1.36	1.0E-107	4506970	NT	Homo sapiens HSPC049 protein (HSPC049), mRNA
11843	24427	37769	1.36	1.0E-107	4506970	NT	Homo sapiens solute carrier family 10 (sodium/bile acid cotransporter family), member 1 (SLC10A1) mRNA
12043	25328		5.86	1.0E-107	AA001415.1	EST_HUMAN	Homo sapiens solute carrier family 10 (sodium/bile acid cotransporter family), member 1 (SLC10A1) mRNA
835	13702	26367	2.66	1.0E-108	BE286042.1	EST_HUMAN	ze45e01.s1 Soares retina N2b4HR Homo sapiens cDNA clone IMAGE:361944 3' similar to contains THR.b1
1242	13991	26657	1.87	1.0E-108	Y18000.1	NT	601177018F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:3532348 5'
							Homo sapiens NF2 gene
2428	15149	27883	4.97	1.0E-108	BE206694.1	EST_HUMAN	bb25b10.x1 NIH_MGC_14 Homo sapiens cDNA clone IMAGE:2963899 3' similar to gb:X63777 60S
3344	16103	28755	0.71	1.0E-108	AF032897.1	NT	RIBOSOMAL PROTEIN L23 (HUMAN); gb:J05277 Mouse hexokinase mRNA, complete cds (MOUSE);
3344	16103	28756	0.71	1.0E-108	AF032897.1	NT	Homo sapiens potassium channel subunit (HERG-3) mRNA, complete cds
							Homo sapiens potassium channel subunit (HERG-3) mRNA, complete cds
4136	16678	29507	1.14	1.0E-108	AW664438.1	EST_HUMAN	h12a11.x1 NCI CGAP_GU1 Homo sapiens cDNA clone IMAGE:2872060 3' similar to SW:3BP1_MOUSE
4489	17225	29853	2.18	1.0E-108	U72961.1	NT	P55194 SH3-BINDING PROTEIN 3BP-1;
4489	17225	29854	2.18	1.0E-108	U72961.1	NT	Human hepatocyte nuclear factor 4-alpha gene, exon 2
4752	17484	30113	1.74	1.0E-108	7661979	NT	Human hepatocyte nuclear factor 4-alpha gene, exon 2
4896	17623	30241	2.8	1.0E-108	AJ008005.1	NT	Homo sapiens KIAA0187 gene product (KIAA0187), mRNA
5391	18191	30883	1.15	1.0E-108	AW384094.1	EST_HUMAN	Homo sapiens PSN1 gene, alternative transcript
5440	18239	30854	1.7	1.0E-108	BE69016.1	EST_HUMAN	RCO-HT0372-241198-031-403 HT0372 Homo sapiens cDNA
5440	18239	30955	1.7	1.0E-108	BE69016.1	EST_HUMAN	601444922F1 NIH_MGC_65 Homo sapiens cDNA clone IMAGE:3848980 5'
5837	18626		0.99	1.0E-108	AF012623.1	NT	601444922F1 NIH_MGC_65 Homo sapiens cDNA clone IMAGE:3848980 5'
							Homo sapiens familial mental retardation protein 2 (FMR2) gene, exon 20
6048	18828	31780	6.13	1.0E-108	AF284717.1	NT	Homo sapiens FYVE domain-containing dual specificity protein phosphatase FYVE-DSP2 mRNA, complete
6048	18828	31781	6.13	1.0E-108	AF284717.1	NT	Homo sapiens FYVE domain-containing dual specificity protein phosphatase FYVE-DSP2 mRNA, complete

Table 4

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
6169	18946	31918	1.27	1.0E-108	AJ133269.1	NT	Homo sapiens caveolin-1/2 locus, Contig1, D7S522, genes CAV2 (exons 1, 2a, and 2b), CAV1 (exons 1 and 2)
6265	18697	31650	0.92	1.0E-108	BF334851.1	EST_HUMAN	PM4-CT0403-240700-001-c10 CT0403 Homo sapiens cDNA
6521	19287	32290	0.63	1.0E-108	AF016706.1	NT	Homo sapiens E6-AP ubiquitin-protein ligase (UBE3A) gene, exon 4
6521	19287	32291	0.63	1.0E-108	AF016706.1	NT	Homo sapiens E6-AP ubiquitin-protein ligase (UBE3A) gene, exon 4
7057	19748	32811	5.82	1.0E-108	11431857	NT	Homo sapiens G protein-coupled receptor, family C, group 5, member B (GPCR5B), mRNA
7339	20020	33098	3.55	1.0E-108	4758333	NT	Homo sapiens delta-6 fatty acid desaturase (FADS6) mRNA
7377	20057	33137	1.16	1.0E-108	BE262607.1	EST_HUMAN	601113471F1 NIH_MGC_16 Homo sapiens cDNA clone IMAGE:3354064 5'
7405	20082	33164	0.84	1.0E-108	BF528912.1	EST_HUMAN	602043384F1 NCI_CGAP_Brn67 Homo sapiens cDNA clone IMAGE:4181037 5'
7405	20082	33165	0.84	1.0E-108	BF528912.1	EST_HUMAN	602043384F1 NCI_CGAP_Brn67 Homo sapiens cDNA clone IMAGE:4181037 5'
7963	20658		1.68	1.0E-108	AF083500.1	NT	Homo sapiens connective tissue growth factor-like protein precursor, mRNA, complete cds
8014	20709	33838	0.48	1.0E-108	AW408694.1	EST_HUMAN	UI-HF-BMO-ads-e-12-0-J1.1 NIH_MGC_38 Homo sapiens cDNA clone IMAGE:3062878 5'
8014	20709	33839	0.48	1.0E-108	AW408694.1	EST_HUMAN	UI-HF-BMO-ads-e-12-0-J1.1 NIH_MGC_38 Homo sapiens cDNA clone IMAGE:3062878 5'
8945	21636	34781	0.75	1.0E-108	AF203977.1	NT	Homo sapiens ETS-family transcription factor EHF (EHF) mRNA, complete cds
8984	21674	34823	0.54	1.0E-108	N44974.1	EST_HUMAN	yy55h10.1 Soares melanocyte 2N5HM Homo sapiens cDNA clone IMAGE:273283 5' similar to PIR-A45773
10565	20368	33481	1.73	1.0E-108	BE535227.1	EST_HUMAN	A45773 kelch protein, long form - fruit fly
10731	17911	30597	1.98	1.0E-108	Y12490.1	NT	601058769F1 NIH_MGC_10 Homo sapiens cDNA clone IMAGE:3446361 5'
10998	23671	36928	1.39	1.0E-108	AF223391.1	NT	Homo sapiens calcium channel alpha1E subunit (CACNA1E) gene, exons 7-49, and partial cds, alternatively spliced
11239	23902	37191	3.82	1.0E-108	AW966165.1	EST_HUMAN	EST378258 MAGE sequences: MAGI Homo sapiens cDNA
11294	23955	37253	2.2	1.0E-108	AV708790.1	EST_HUMAN	AV708790 ADC Homo sapiens cDNA clone ADCAEE03 5'
11294	23955	37254	2.2	1.0E-108	AV708790.1	EST_HUMAN	AV708790 ADC Homo sapiens cDNA clone ADCAEE03 5'
11343	24033		1.67	1.0E-108	11441465	NT	Homo sapiens G protein-coupled receptor 48 (GPR48), mRNA
11405	24054	37359	1.68	1.0E-108	D63539.1	NT	Homo sapiens COL4A6 gene for alpha1(V) collagen, exon 23
12204	24671	31072	2.41	1.0E-108	AK024447.1	NT	Homo sapiens mRNA for FLJ00037 protein, partial cds
12583	24906		8.32	1.0E-108	BF346356.1	EST_HUMAN	602018571F1 NCI_CGAP_Brn67 Homo sapiens cDNA clone IMAGE:4154297 5'
41	12869	25488	0.87	1.0E-109	AW803116.1	EST_HUMAN	IL2-UMC077-260400-079-D06 UM0077 Homo sapiens cDNA
62	12890	25523	0.97	1.0E-109	D86974.1	NT	Human mRNA for KIAA0220 gene, partial cds
220	13031	25667	1.59	1.0E-109	11438391	NT	Homo sapiens reticulocalbin 1, EF-hand calcium binding domain (RCN1), mRNA
454	13240	25878	5.59	1.0E-109	4507712	NT	Homo sapiens tetrapeptide repeat domain 2 (TTC2) mRNA
584	13364	25992	26.8	1.0E-109	AB023216.1	NT	Homo sapiens mRNA for KIAA0999 protein, partial cds
584	13364	25993	26.8	1.0E-109	AB023216.1	NT	Homo sapiens mRNA for KIAA0999 protein, partial cds
1180	13833	26598	10.97	1.0E-109	M28699.1	NT	Homo sapiens nucleolar phosphoprotein B23 (NPM1) mRNA, complete cds

Table 4
Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
1181	13933	26598	4	1.0E-109	M28699.1	NT	Homo sapiens nucleolar phosphoprotein B23 (NPM1) mRNA, complete cds
1533	14280	26967	3.31	1.0E-109	BE293673.1	EST_HUMAN	601186922F2 NIH_MGC_15 Homo sapiens cDNA clone IMAGE:2859636 5'
1533	14280	26968	3.31	1.0E-109	BE293673.1	EST_HUMAN	601186922F2 NIH_MGC_15 Homo sapiens cDNA clone IMAGE:2859636 5'
1687	14605	27315	3.3	1.0E-109	D13843.2	NT	Homo sapiens mRNA for KIAA0018 protein, partial cds
2237	14965	27705	1.78	1.0E-109	AL163284.2	NT	Homo sapiens chromosome 21 segment HS21C084
2248	14976	27714	1.89	1.0E-109	Y17123.1	NT	Homo sapiens SNF5/INI1 gene, exon 6
2628	15340	28084	3.98	1.0E-109	A1022328.1	EST_HUMAN	ow95a01.x1 Soares_fetal_liver_spleen_1NFLS_S1 Homo sapiens cDNA clone IMAGE:1654536 3' similar to TR:002197 002197 CIRCULATING CATHODIC ANTIGEN.;
2628	15340	28085	3.98	1.0E-109	A1022328.1	EST_HUMAN	ow95a01.x1 Soares_fetal_liver_spleen_1NFLS_S1 Homo sapiens cDNA clone IMAGE:1654536 3' similar to TR:002197 002197 CIRCULATING CATHODIC ANTIGEN.;
2629	15341	28086	2.07	1.0E-109	4504208	NT	Homo sapiens guanylate cyclase activator 1A (retina) (GUCA1A) mRNA
3054	15920	28464	2.22	1.0E-109	N85190.1	EST_HUMAN	J2816F Human fetal heart, Lambda ZAP Express Homo sapiens cDNA clone J2816 5' similar to ZINC FINGER PROTEIN ZNF43
3383	16142	28799	3.14	1.0E-109	AW893192.1	EST_HUMAN	CM3-NN0009-190400-150-f10 NN0009 Homo sapiens cDNA
3383	16142	28800	3.14	1.0E-109	AW893192.1	EST_HUMAN	CM3-NN0009-190400-150-f10 NN0009 Homo sapiens cDNA
3508	16264	28918	1.21	1.0E-109	AF240898.1	NT	Homo sapiens retinol dehydrogenase homolog isoform-1 (RDH) mRNA, complete cds
3548	16303	28953	0.9	1.0E-109	M37928.1	NT	Homo sapiens adenosine monophosphate deaminase 1 (AMPD1) gene, exons 8-10
3548	16303	28954	0.9	1.0E-109	M37928.1	NT	Homo sapiens adenosine monophosphate deaminase 1 (AMPD1) gene, exons 8-10
3823	16675		2.59	1.0E-109	BE146144.1	EST_HUMAN	MRO-HT0209-110400-108-a04 HT0209 Homo sapiens cDNA
3974	16723	29357	1.42	1.0E-109	AB011181.2	NT	Homo sapiens mRNA for KIAA0609 protein, partial cds
3974	16723	29358	1.42	1.0E-109	AB011181.2	NT	Homo sapiens mRNA for KIAA0609 protein, partial cds
4127	16869	29497	3.88	1.0E-109	AI655417.1	EST_HUMAN	ts98e06.x1 NCI_CGAP_G06 Homo sapiens cDNA clone IMAGE:2239330 3' similar to WP.F53A2.8 CE16100;
4141	16883	29512	1.02	1.0E-109	AA662274.1	EST_HUMAN	nu93ct12.s1 NCI_CGAP_P122 Homo sapiens cDNA clone IMAGE:1218262 3' similar to SW:GTT2_HUMAN
4141	16883	29513	1.02	1.0E-109	AA662274.1	EST_HUMAN	P30712 GLUTATHIONE S-TRANSFERASE THETA 2;
4371	17109	29744	2.48	1.0E-109	4504208	NT	nu93ct12.s1 NCI_CGAP_P122 Homo sapiens cDNA clone IMAGE:1218262 3' similar to SW:GTT2_HUMAN
4561	17296	29923	1.69	1.0E-109	7662083	NT	Homo sapiens guanylate cyclase activator 1A (retina) (GUCA1A) mRNA
4967	17595	30218	1.27	1.0E-109	R15400.1	EST_HUMAN	Homo sapiens KIAA0377 gene product (KIAA0377), mRNA
4992	17715	30320	1.39	1.0E-109	BE293673.1	EST_HUMAN	ya48e06.r1 Soares infant brain 1NIB Homo sapiens cDNA clone IMAGE:53057 5'
4992	17715	30321	1.39	1.0E-109	BE293673.1	EST_HUMAN	601186922F2 NIH_MGC_15 Homo sapiens cDNA clone IMAGE:2959636 5'
5167	17976	30534	0.81	1.0E-109	AU137282.1	EST_HUMAN	601186922F2 NIH_MGC_15 Homo sapiens cDNA clone IMAGE:2959636 5'
5179	17988	30503	1.06	1.0E-109	BF673718.1	EST_HUMAN	AU137282 PLACE1 Homo sapiens cDNA clone PLACE1008159 5'
5179	17988	30503	1.06	1.0E-109	BF673718.1	EST_HUMAN	602136446F1 NIH_MGC_83 Homo sapiens cDNA clone IMAGE:4272922 5'

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Table 4
Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
5230	18036	30662	3.09	1.0E-109	5174622	NT	Homo sapiens placental protein 11 (serine proteinase) (P11) mRNA
5620	18318		1.11	1.0E-109	BE179356.1	EST_HUMAN	RC1-HT0615-200400-022-d04 HT0615 Homo sapiens cDNA
5838	25078	31560	0.64	1.0E-109	BF379688.1	EST_HUMAN	CM1-UT0038-060900-399-h07 UT0038 Homo sapiens cDNA
5907	18318		1.6	1.0E-109	BE179356.1	EST_HUMAN	RC1-HT0615-200400-022-d04 HT0615 Homo sapiens cDNA
7140	19827	32896	0.97	1.0E-109	AB046811.1	NT	Homo sapiens mRNA for KIAA1891 protein, partial cds
7484	20138	33230	3.99	1.0E-109	11432874	NT	Homo sapiens AT-binding transcription factor 1 (ATBF1), mRNA
7466	20140	33232	5.28	1.0E-109	BF182707.1	EST_HUMAN	601809495F1 NIH_MGC_18 Homo sapiens cDNA clone IMAGE:4040279 5'
7466	20140	33233	5.28	1.0E-109	BF182707.1	EST_HUMAN	601809495F1 NIH_MGC_18 Homo sapiens cDNA clone IMAGE:4040279 5'
7674	20338	33451	0.67	1.0E-109	BE263297.1	EST_HUMAN	601145017F2 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:3160229 5'
8073	20767	33896	1.48	1.0E-109	AL049784.1	NT	Novel human gene mapping to chromosome 13
8183	20877	34014	0.99	1.0E-109	AW749130.1	EST_HUMAN	PMO-BT0340-091299-002-e05 BT0340 Homo sapiens cDNA
8555	21247		2.77	1.0E-109	AA077498.1	EST_HUMAN	7 Fetal Brain cDNA Library Homo sapiens cDNA clone 7B18H01
8633	21325	34466	8.42	1.0E-109	BE787540.1	EST_HUMAN	601479417F1 NIH_MGC_68 Homo sapiens cDNA clone IMAGE:3882124 5'
8633	21325	34467	8.42	1.0E-109	BE787540.1	EST_HUMAN	601479417F1 NIH_MGC_68 Homo sapiens cDNA clone IMAGE:3882124 5'
8876	21567	34711	0.56	1.0E-109	BE145672.1	EST_HUMAN	IL0-HT0205-071199-142-g01 HT0205 Homo sapiens cDNA
9137	21825	34990	1.91	1.0E-109	HB4800.1	EST_HUMAN	y90g08.r1 Soares retina N2b5HR Homo sapiens cDNA clone IMAGE:222110 5' similar to SP-A53491
9250	21929	35101	0.63	1.0E-109	BE397088.1	EST_HUMAN	A53491 BUMETANIDE-SENSITIVE NA-K-Cl COTRANSPORTER - SPINY
9250	21929	35102	0.63	1.0E-109	BE397088.1	EST_HUMAN	601289760F1 NIH_MGC_8 Homo sapiens cDNA clone IMAGE:3620030 5'
9384	22048	36218	2.64	1.0E-109	F06604.1	EST_HUMAN	601289760F1 NIH_MGC_8 Homo sapiens cDNA clone IMAGE:3620030 5'
10673	23364	36806	1.71	1.0E-109	BE540909.1	EST_HUMAN	HSC-IEC121 normalized infant brain cDNA Homo sapiens cDNA clone c-1ec12
10710	23399	36638	1.71	1.0E-109	BE540909.1	EST_HUMAN	601063030F1 NIH_MGC_10 Homo sapiens cDNA clone IMAGE:3449599 5'
10888	23568	36818	1.55	1.0E-109	BF694831.1	EST_HUMAN	602080724F2 NIH_MGC_81 Homo sapiens cDNA clone IMAGE:4245341 5'
10888	23568	36819	1.55	1.0E-109	7662278	NT	Homo sapiens KIAA0744 gene product; histone deacetylase 7 (KIAA0744), mRNA
11069	23739	37013	1.8	1.0E-109	AU121370.1	EST_HUMAN	Homo sapiens KIAA0744 gene product; histone deacetylase 7 (KIAA0744), mRNA
11342	24032	37336	2.72	1.0E-109	4502638	NT	AU121370 HEMBB1 Homo sapiens cDNA clone HEMBB1002690 5'
11383	23990	37291	11.6	1.0E-109	W16510.1	EST_HUMAN	Homo sapiens Chediak-Higashi syndrome 1 (CHS1) mRNA
11685	24280	37802	1.46	1.0E-109	11418618	NT	zb08b12.r1 Soares fetal_lung_NbHL19W Homo sapiens cDNA clone IMAGE:301439 5' similar to PIR-S43969 S43969 p54-beta stress-activated protein kinases - rat;
11848	24432	37773	1.27	1.0E-109	BF339540.1	EST_HUMAN	Homo sapiens single-minded (Drosophila) homolog 1 (SIM1), mRNA
11848	24432	37774	1.27	1.0E-109	BF339540.1	EST_HUMAN	602039003F1 NCI_CGAP_Brm64 Homo sapiens cDNA clone IMAGE:4186753 5'
12112	14976	27714	2.1	1.0E-109	Y17123.1	NT	602039003F1 NCI_CGAP_Brm64 Homo sapiens cDNA clone IMAGE:4186753 5'
12328	14976	27714	2.73	1.0E-109	Y17123.1	NT	Homo sapiens SNF5/INI1 gene, exon 6
							Homo sapiens SNF5/INI1 gene, exon 6

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Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
12443	24813	31047	2.08	1.0E-108	AB011399.1	NT	Homo sapiens gene for AF-6, complete cds
3	12831	25444	1.65	1.0E-110	7549804	NT	Homo sapiens deiodinase, iodothyronine, type II (DIO2), transcript variant 2, mRNA
38	12864	25482	4.71	1.0E-110	5803073	NT	Homo sapiens leucine-zipper-like transcriptional regulator, 1 (LZTR1), mRNA
36	12864	25483	4.71	1.0E-110	5803073	NT	Homo sapiens leucine-zipper-like transcriptional regulator, 1 (LZTR1), mRNA
79	12905	25543	0.7	1.0E-110	C04498.1	EST_HUMAN	C04498 Human heart cDNA (YNakamura) Homo sapiens cDNA clone 3NH3467
107	12831	25444	2.26	1.0E-110	7549804	NT	Homo sapiens deiodinase, iodothyronine, type II (DIO2), transcript variant 2, mRNA
514	13298	25930	1.54	1.0E-110	U84550.1	NT	Human dystrorobrevin (DTN) gene, exon 20
1157	13912	28575	0.8	1.0E-110	5031820	NT	Homo sapiens calcitonin receptor-like (CALCRL) mRNA
1256	14005	28674	0.8	1.0E-110	AB032263.1	NT	Homo sapiens BAZ1B mRNA for bromodomain adjacent to zinc finger domain 1B, complete cds
1914	14851	27361	1.19	1.0E-110	BE379477.1	EST_HUMAN	601237545F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3609683 5'
2051	14784		1.6	1.0E-110	BF508896.1	EST_HUMAN	UI-H-BJ4-eos-b-05-0-UJ.s1 NCJ_CGAP_Sub8 Homo sapiens cDNA clone IMAGE:3085784 3'
2845	15613		1	1.0E-110	4503098	NT	Homo sapiens chondroitin sulfate proteoglycan 4 (melanoma-associated) (CSPG4), mRNA
3189	15952	28603	1.49	1.0E-110	11436041	NT	Homo sapiens pregnancy-zone protein (PZP), mRNA
3189	15952	28604	1.49	1.0E-110	11436041	NT	Homo sapiens pregnancy-zone protein (PZP), mRNA
4031	16776	29407	1.09	1.0E-110	BE018566.1	EST_HUMAN	bb82a05.y1 NIH_MGC_10 Homo sapiens cDNA clone IMAGE:3048848 5' similar to TR:060312 O60312 KIAA0566 PROTEIN ;
4591	17328	29951	2.14	1.0E-110	A0107213.1	EST_HUMAN	ou32b10.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:1627963 3' similar to SW:N121_RAT_P52591 NUCLEAR ENVELOPE PORE MEMBRANE PROTEIN POM 121 ;
4606	17341	28972	3.9	1.0E-110	AU117812	EST_HUMAN	AU117812 HEMBA1 Homo sapiens cDNA clone HEMBA1002241 5'
4916	17644		2.7	1.0E-110	7662441	NT	Homo sapiens KIAA1002 protein (KIAA1002), mRNA
5212	18020	30842	2.63	1.0E-110	BE299406.1	EST_HUMAN	60118710F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:3028538 5'
5639	18434	31347	0.8	1.0E-110	BE621069.1	EST_HUMAN	60149367F1 NIH_MGC_70 Homo sapiens cDNA clone IMAGE:3895795 5'
5658	18451	31364	8.61	1.0E-110	11419323	NT	Homo sapiens hypothetical protein FLJ10300 (FLJ10300), mRNA
5658	18451	31365	8.61	1.0E-110	11419323	NT	Homo sapiens hypothetical protein FLJ10300 (FLJ10300), mRNA
6817	25098	32395	8.08	1.0E-110	M55112.1	NT	Human cystic fibrosis transmembrane conductance regulator (CFTR) gene, exon 7
7002	19694	32748	0.8	1.0E-110	U08888.1	NT	Human GS2 gene, exon 2
7002	19694	32747	0.8	1.0E-110	U08888.1	NT	Human GS2 gene, exon 2
7224	19609	32983	0.74	1.0E-110	A1560289.1	EST_HUMAN	tt12408.x1 NCJ_CGAP_Brn25 Homo sapiens cDNA clone IMAGE:2167407 3' similar to SW:ETV1_HUMAN P50549 ETS TRANSLOCATION VARIANT 1 ;
7325	20008	33085	6.9	1.0E-110	AV714276.1	EST_HUMAN	AV714276 DCB Homo sapiens cDNA clone DCBCE01 5'
7325	20008	33086	6.9	1.0E-110	AV714276.1	EST_HUMAN	AV714276 DCB Homo sapiens cDNA clone DCBCE01 5'
7355	20036	33114	3.21	1.0E-110	AB020675.1	NT	Homo sapiens mRNA for KIAA0868 protein, partial cds
7469	20143	33235	0.83	1.0E-110	AU137923.1	EST_HUMAN	AU137923 PLACE1 Homo sapiens cDNA clone PLACE100751 5'

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9234	21913	35087	7.88	1.0E-110	BE302594.1	EST_HUMAN	ba68101.y1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:2805561 5' similar to TR:O77258 O77258
9476	22129	35308	2.39	1.0E-110	AW838394.1	EST_HUMAN	EG:114D9.2 PROTEIN. ;
10221	22869	36081	3.45	1.0E-110	11432732	NT	QV2-L T0053-020400-119-c04 LT0053 Homo sapiens cDNA
10648	23339	36578	3.64	1.0E-110	Y12337.1	NT	Homo sapiens galactokinase 2 (GALK2), mRNA
10887	23567	36816	3.75	1.0E-110	BE734357.1	EST_HUMAN	H. sapiens mRNA for myotonic dystrophy protein kinase like protein
10887	23567	36817	3.75	1.0E-110	BE734357.1	EST_HUMAN	601565604F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3840433 5'
11420	23187	36418	2.45	1.0E-110	AA446529.1	EST_HUMAN	601565604F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3840433 5'
11938	24496		4.54	1.0E-110	BE897218.1	EST_HUMAN	zw67g02.r1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:781288 5' similar to TR:G1145816
12081	24576		11.71	1.0E-110	AW062288.1	EST_HUMAN	G1145816 FKBP54 ;
12280	24720		1.44	1.0E-110	AB011399.1	NT	601439784F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3924548 5'
12346	24753		1.35	1.0E-110	A1127761.1	EST_HUMAN	IL0-BT0163-040899-084-g10 BT0163 Homo sapiens cDNA
12429	25339		3.25	1.0E-110	BF564546.1	EST_HUMAN	Homo sapiens gene for AF-6, complete cds
12701	14784		1.45	1.0E-110	BF508896.1	EST_HUMAN	qc31c12.x1 Soares_pregnant_uterus_NbHPU Homo sapiens cDNA clone IMAGE:1711222 3'
170	12983		10.84	1.0E-111	U43701.1	NT	PM3-NN1082-140800-006-f12 NN1082 Homo sapiens cDNA
181	13004	25645	1.05	1.0E-111	4758807	NT	UI-H-B14-aos-b-05-0-U1.s1 NCI_CGAP_Sub8 Homo sapiens cDNA clone IMAGE:3085784 3'
718	13492		2.38	1.0E-111	BF038327.1	EST_HUMAN	Human ribosomal protein L23a mRNA, complete cds
728	13500	26154	5.13	1.0E-111	BF038327.1	EST_HUMAN	Homo sapiens ras GTPase activating protein-like (NGAP) mRNA
906	13673	26338	3.82	1.0E-111	M25142.1	NT	601456531F1 NIH_MGC_86 Homo sapiens cDNA clone IMAGE:3862086 5'
1624	14371	27060	1.43	1.0E-111	7662177	NT	Homo sapiens cat eye syndrome critical region gene 1 (CECR1), mRNA
2234	14932	27701	1.02	1.0E-111	A F036126.1	NT	Human cardiac alpha-myosin heavy chain (MYH6) gene, exons 32 to 34
4150	16892	29522	1.08	1.0E-111	7661569	NT	Homo sapiens KIA0555 gene product (KIA0555), mRNA
4296	17034	29882	4.38	1.0E-111	K02268.1	NT	Homo sapiens DKFZP434D156 protein (DKFZP434D156), mRNA
4691	17425	30057	8.36	1.0E-111	4505778	NT	Homo sapiens collagen type IX alpha 1 chain (COL9A1) gene, exons 29, 30, 31, and 32
5544	18341	31249	1.09	1.0E-111	BE887909.1	EST_HUMAN	Human enkephalin B (enkeB) gene, exon 4 and 3' flank and complete cds
5942	18724	31683	1.98	1.0E-111	A1344679.1	EST_HUMAN	Homo sapiens phosphorylase kinase, alpha 1 (muscle) (PHKA1), mRNA
6590	19343	32357	1.16	1.0E-111	AL040762.1	EST_HUMAN	601443690F1 NIH_MGC_65 Homo sapiens cDNA clone IMAGE:3947665 5'
6709	19624	32668	1.06	1.0E-111	AW294848.1	EST_HUMAN	qp09g12.x1 NCI_CGAP_Kid5 Homo sapiens cDNA clone IMAGE:1917574 3' similar to gb:M28893 RAS-RELATED PROTEIN RAL-A (HUMAN);
7347	20028	33104	2.99	1.0E-111	BF366228.1	EST_HUMAN	DKFZp434C1815.t1 434 (synonym: htes3) Homo sapiens cDNA clone DKFZp434C1815 5'
7433	20110	33198	0.62	1.0E-111	A1761228.1	EST_HUMAN	UI-H-BW0-ait-4-03-0-U1.s1 NCI_CGAP_Sub8 Homo sapiens cDNA clone IMAGE:2729525 3'
							IL2-NT0101-280700-114-E03 NT0101 Homo sapiens cDNA
							w68401.x1 NCI_CGAP_Kid12 Homo sapiens cDNA clone IMAGE:2398465 3' similar to gb:J04813
							CYTOTOCHROME P450 IIIA5 (HUMAN);

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7514	20185	33279	0.6	1.0E-111	U80017.1	NT	Homo sapiens basic transcription factor 2 p44 (btf2p44) gene, partial cds, neuronal apoptosis inhibitory protein (naip) and survival motor neuron protein (smn) genes, complete cds
7993	20688	33815	0.73	1.0E-111	AA278968.1	EST_HUMAN	zsf9g03.r1 NCI_CGAP_GCB1 Homo sapiens cDNA clone IMAGE:703732 5' similar to TR:G1256410
7993	20688	33815	0.73	1.0E-111	AA278968.1	EST_HUMAN	G1256410 11-ZINC-FINGER TRANSCRIPTION FACTOR.;
8088	20792	33912	0.62	1.0E-111	U66533.1	NT	zsf9g03.r1 NCI_CGAP_GCB1 Homo sapiens cDNA clone IMAGE:703732 5' similar to TR:G1256410
8139	20833	33967	3.28	1.0E-111	U66533.1	NT	G1256410 11-ZINC-FINGER TRANSCRIPTION FACTOR.;
8579	21271	34409	0.79	1.0E-111	11420516	NT	Homo sapiens protein x0001 (LOC51185), mRNA
8674	21366	34513	0.73	1.0E-111	AK024453.1	NT	Human beta4-integrin (ITGB4) gene, exon 13
8707	21399		1.57	1.0E-111	AF177987.1	NT	Homo sapiens nuclear factor of activated T-cells, cytoplasmic 2 (NFATC2), mRNA
8708	21400		8.65	1.0E-111	BF214902.1	EST_HUMAN	Homo sapiens mRNA for FLJ00045 protein, partial cds
8782	21474	34620	12.9	1.0E-111	X17033.1	NT	Homo sapiens core sodium-calcium potassium exchanger splice variant (NCKX) mRNA, complete cds
8782	21474	34621	12.9	1.0E-111	X17033.1	NT	601847132F1 NIH_MGC_55 Homo sapiens cDNA clone IMAGE:4078303 5'
8986	21676	34825	2.8	1.0E-111	AF091395.1	NT	Human mRNA for integrin alpha-2 subunit
9217	21896	35066	0.49	1.0E-111	BF333210.1	EST_HUMAN	Human mRNA for integrin alpha-2 subunit
10052	22700	35917	3.21	1.0E-111	AA604160.1	EST_HUMAN	Homo sapiens Tric isoform mRNA, complete cds
10080	22728		2.4	1.0E-111	D10083.1	NT	QV2-BT0817-270900-398-c06 BT0817 Homo sapiens cDNA
10172	22820	36038	5.24	1.0E-111	AA131248.1	EST_HUMAN	aa58g02.s1 NCI_CGAP_GCB1 Homo sapiens cDNA clone IMAGE:825170 3' similar to gb:U09235
10973	23649	36902	4.25	1.0E-111	U68159.1	NT	VACUOLAR ATP SYNTHASE CATALYTIC SUBUNIT A, UBIQUITOUS (HUMAN);
11465	24068	37376	2.74	1.0E-111	A1751071.1	EST_HUMAN	Homo sapiens RGH1 gene, retrovirus-like element
11897	24484	37802	3.72	1.0E-111	11417901	NT	231101.r1 Soares_pregnant_uterus_NHPU Homo sapiens cDNA clone IMAGE:503545 5'
12424	24800	31040	1.51	1.0E-111	AV708482.1	EST_HUMAN	Human fibronectin receptor (MPL) gene, exons 1,2,3,4,5 and 6
12672	17914	30599	1.56	1.0E-111	AB035356.1	NT	cn07a11.x1 Normal Human Trabecular Bone Cells Homo sapiens cDNA clone NIH:TCB_cn07a11 random
594	13372	26001	1.29	1.0E-112	4501854	NT	Homo sapiens meningo (disrupted in balanced translocation) 1 (MNT1), mRNA
596	13374	26003	12.55	1.0E-112	U29103.1	NT	Homo sapiens ADC Homo sapiens cDNA clone ADCA0808 5'
596	13374	26004	12.55	1.0E-112	U29103.1	NT	Homo sapiens mRNA for neuraxin 1-alpha protein, complete cds
617	13395	26029	1.86	1.0E-112	BF509039.1	EST_HUMAN	Homo sapiens acetyl-Coenzyme A carboxylase beta (ACACB), mRNA
617	13395	26030	1.86	1.0E-112	BF509039.1	EST_HUMAN	Human steroidogenic acute regulatory protein (STAR) gene, exon 5
981	13746	26408	8.94	1.0E-112	AF157823.1	NT	Human steroidogenic acute regulatory protein (STAR) gene, exon 5
1040	13800	26458	2.2	1.0E-112	P52742	SWISSPROT	UI-H-B14-act-g-04-0-U1.s1 NCI_CGAP_Sub8 Homo sapiens cDNA clone IMAGE:3086023 3'
							UI-H-B14-act-g-04-0-U1.s1 NCI_CGAP_Sub8 Homo sapiens cDNA clone IMAGE:3086023 3'
							Homo sapiens HTRA serine protease (PRSS11) gene, complete cds
							ZINC FINGER PROTEIN 135

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1678	14423	27117	4.39	1.0E-112	7862125	NT	Homo sapiens KIAA0440 protein (KIAA0440), mRNA
1679	14423	27118	4.39	1.0E-112	7862125	NT	Homo sapiens KIAA0440 protein (KIAA0440), mRNA
2194	14923	27657	1.37	1.0E-112	A1769925.1	EST_HUMAN	w190f06.x1 NCI_CGAP_Kid12 Homo sapiens cDNA clone IMAGE:2400811 3'
2512	15229	27869	1.1	1.0E-112	BE68859.1	EST_HUMAN	601442674F1 NIH_MGC_65 Homo sapiens cDNA clone IMAGE:3846858 5'
3076	15842		1.15	1.0E-112	4504116	NT	Homo sapiens glutamate receptor, ionotropic, kainate 1 (GRIK1) mRNA
3355	16115	28770	0.7	1.0E-112	A182651.1	EST_HUMAN	wk45b12.x1 NCI_CGAP_P22 Homo sapiens cDNA clone IMAGE:2418335 3' similar to gb:M81650_maf
3864	16614	29253	0.74	1.0E-112	BE076073.1	EST_HUMAN	SEMENOGELIN 1 PROTEIN PRECURSOR (HUMAN);
4585	17300	29927	1.39	1.0E-112	4504116	NT	MR2-BT0590-090300-113-09 BT0590 Homo sapiens cDNA
4704	17437	30068	4.9	1.0E-112	AB037832.1	NT	Homo sapiens glutamate receptor, ionotropic, kainate 1 (GRIK1) mRNA
4704	17437	30069	4.9	1.0E-112	AB037832.1	NT	Homo sapiens mRNA for KIAA1411 protein, partial cds
5581	18378	31291	40.71	1.0E-112	A6037832.1	EST_HUMAN	Homo sapiens mRNA for KIAA1411 protein, partial cds
5985	18766	31730	1.04	1.0E-112	N46046.1	EST_HUMAN	Homo sapiens mRNA for KIAA1411 protein, partial cds
6155	18832	31899	1.43	1.0E-112	AF149773.1	NT	Homo sapiens NOD1 protein (NOD1) gene, exons 1, 2, and 3
6369	19138	32134	0.68	1.0E-112	BE741666.1	EST_HUMAN	Homo sapiens NOD1 protein (NOD1) gene, exons 1, 2, and 3
6539	19304	32308	0.71	1.0E-112	BF672815.1	EST_HUMAN	601584717F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3848557 5'
6539	19304	32309	0.71	1.0E-112	BE273103.1	EST_HUMAN	602152649F1 NIH_MGC_81 Homo sapiens cDNA clone IMAGE:4293420 5'
6741	19575	32607	1.13	1.0E-112	BE273103.1	EST_HUMAN	601142755F1 NIH_MGC_14 Homo sapiens cDNA clone IMAGE:3506508 5'
7236	19921	32965	1.87	1.0E-112	BF574235.1	EST_HUMAN	601142755F1 NIH_MGC_14 Homo sapiens cDNA clone IMAGE:3506508 5'
7236	19921	32965	1.87	1.0E-112	11416777	NT	602131405F1 NIH_MGC_81 Homo sapiens cDNA clone IMAGE:4270921 5'
7236	19921	32966	1.87	1.0E-112	11416777	NT	Homo sapiens solute carrier family 6 (neurotransmitter transporter, L-proline), member 7 (SLC6A7), mRNA
7729	25120	33507	0.56	1.0E-112	BF213358.1	EST_HUMAN	Homo sapiens solute carrier family 6 (neurotransmitter transporter, L-proline), member 7 (SLC6A7), mRNA
8093	20787	33919	1.73	1.0E-112	AU118051.1	EST_HUMAN	601845089F1 NIH_MGC_55 Homo sapiens cDNA clone IMAGE:4070302 5'
8856	21547	34694	2.09	1.0E-112	BE867635.1	EST_HUMAN	AU118051 HEMBA1 Homo sapiens cDNA clone IMAGE:1002773 5'
8856	21547	34695	2.09	1.0E-112	BE867635.1	EST_HUMAN	601443151F1 NIH_MGC_65 Homo sapiens cDNA clone IMAGE:3847285 5'
9793	22444	35649	2.15	1.0E-112	BF111413.1	EST_HUMAN	601443151F1 NIH_MGC_65 Homo sapiens cDNA clone IMAGE:3847285 5'
10677	23368	36611	2.86	1.0E-112	AW863327.1	EST_HUMAN	730g07.x1 Soares_NSF_F8_9W_OT_PA_P_S1 Homo sapiens cDNA clone IMAGE:3523020 3' similar to
10868	23548	36786	3.37	1.0E-112	AJ249900.1	NT	TR:Q9VW35 Q9VW35 CG8743 PROTEIN.
11040	23711	36981	1.92	1.0E-112	BE280479.1	EST_HUMAN	MR3-SN0009-100400-106-b12 SN0009 Homo sapiens cDNA
1109	23779	37053	1.59	1.0E-112	A1792603.1	EST_HUMAN	Homo sapiens mRNA for secreted modular calcium-binding protein (smoc1 gene)
							601155323F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:313989 5'
							qk24c08.y6 NCI_CGAP_Kid3 Homo sapiens cDNA clone IMAGE:1869902 5' similar to TR:Q64362 Q64362
							FUSED TOES ;

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11109	23779	37084	1.59	1.0E-112	A1792603.1	EST_HUMAN	qk24c08.y6 NCI_CGAP_Kid3 Homo sapiens cDNA clone IMAGE:1869902 5' similar to TR:Q64362 Q64362
11139	23806	37085	6.6	1.0E-112	AW377670.1	EST_HUMAN	FUSED TOES ;
11810	24399	37734	1.92	1.0E-112	A1792603.1	EST_HUMAN	PMO-C70237-141099-001-h02 C70237 Homo sapiens cDNA FUSED TOES ;
11810	24399	37735	1.92	1.0E-112	A1792603.1	EST_HUMAN	qk24c08.y6 NCI_CGAP_Kid3 Homo sapiens cDNA clone IMAGE:1869902 5' similar to TR:Q64362 Q64362
725	13499	26152	5.37	1.0E-113	A1365586.1	EST_HUMAN	FUSED TOES ;
725	13499	26153	5.37	1.0E-113	A1365586.1	EST_HUMAN	ac95f01.x1 Schiller meningioma Homo sapiens cDNA clone IMAGE:1953625 3'
921	13688	26352	7.99	1.0E-113	M111965.1	NT	ac95f01.x1 Schiller meningioma Homo sapiens cDNA clone IMAGE:1953625 3'
1532	14279	28966	2.66	1.0E-113	A1365586.1	EST_HUMAN	Human X-linked phosphoglycerate kinase gene, exon 8
1832	15524	27382	1.44	1.0E-113	AF240775.1	NT	ac95f01.x1 Schiller meningioma Homo sapiens cDNA clone IMAGE:1953625 3'
2088	14820	27551	1.02	1.0E-113	BF515218.1	EST_HUMAN	Homo sapiens eIF4E-transporter mRNA, complete cds
2456	15174	27913	26.34	1.0E-113	AJ006976.1	EST_HUMAN	UI-H-BW1-ant-f03-0-U1.st NCI_CGAP_Sub7 Homo sapiens cDNA clone IMAGE:3082876 3'
3127	15892	28536	1.92	1.0E-113	AJ223948.1	NT	Homo sapiens PLP gene
4966	17691	30300	0.91	1.0E-113	D85606.1	NT	Homo sapiens mRNA for putative RNA helicase, 3' end
5008	17731	30335	2.16	1.0E-113	5453562	NT	Homo sapiens gene for cholecystikinin type-A receptor, complete cds
5165	25178	30336	2.16	1.0E-113	5453562	NT	Homo sapiens activating transcription factor B (B-ATF), mRNA
5405	18205	30909	2.97	1.0E-113	BE780898.1	EST_HUMAN	Homo sapiens activating transcription factor B (B-ATF), mRNA
5832	18621	31554	7.66	1.0E-113	AU127214.1	EST_HUMAN	601460465F1 NIH_MGC_67 Homo sapiens cDNA clone IMAGE:3872536 5'
5861	18648	31589	4.17	1.0E-113	AU140291.1	EST_HUMAN	AU127214 NT2RP2 Homo sapiens cDNA clone NT2RP2000807 5'
5979	18761	31725	1.47	1.0E-113	AF016535.1	NT	AU140291 PLACE2 Homo sapiens cDNA clone PLAGE2000274 5'
6064	18943	31806	2.82	1.0E-113	11525737	NT	Homo sapiens P-glycoprotein (mdr1) mRNA, complete cds (GalNac-T8) (GALNT8), mRNA
6064	18943	31806	0.88	1.0E-113	9961249	NT	Homo sapiens ATP-binding cassette, sub-family B (MDR7TAP), member 4 (ABCB4), transcript variant B, mRNA
6064	18943	31807	0.88	1.0E-113	9961249	NT	Homo sapiens ATP-binding cassette, sub-family B (MDR7TAP), member 4 (ABCB4), transcript variant B, mRNA
6224	18998	31974	0.8	1.0E-113	6006002	NT	Homo sapiens glutamate receptor, ionotropic, N-methyl D-aspartate 2A (GRIN2A) mRNA
6224	18998	31975	0.8	1.0E-113	6006002	NT	Homo sapiens glutamate receptor, ionotropic, N-methyl D-aspartate 2A (GRIN2A) mRNA
7221	19908	32979	0.78	1.0E-113	BE262161.1	EST_HUMAN	601152078F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:3509362 5'
7221	19908	32980	0.78	1.0E-113	BE262161.1	EST_HUMAN	601152078F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:3509362 5'
7573	20242	33347	0.56	1.0E-113	AW988960.1	EST_HUMAN	EST371030 IMAGE resequences, IMAGE Homo sapiens cDNA
8780	21482	34629	0.46	1.0E-113	8922819	NT	Homo sapiens hypothetical protein FLJ11006 (FLJ11006), mRNA

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
8992	21882	34830	3.06	1.0E-113	BE382842.1	EST_HUMAN	601297709F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:3627554 5'
8992	21882	34831	3.06	1.0E-113	BE382842.1	EST_HUMAN	601297709F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:3627554 5'
9301	21968		0.93	1.0E-113	BE772967.1	EST_HUMAN	RC1-FT0134-280800-021-002 FT0134 Homo sapiens cDNA
9730	22381	35583	1.4	1.0E-113	11429367	NT	Homo sapiens transmembrane protein 2 (TMEM2), mRNA
9830	22481	35683	0.45	1.0E-113	M21535.1	NT	Human erg protein (efs-related gene) mRNA, complete cds
9850	22598	35802	0.81	1.0E-113		NT	Homo sapiens RAN binding protein 7 (RANBP7), mRNA
9850	22598	35803	0.81	1.0E-113	5453997	NT	Homo sapiens RAN binding protein 7 (RANBP7), mRNA
10514	23160	36386	0.61	1.0E-113	AW500517.1	EST_HUMAN	UI-HF-BNO-akj-b-10-0-UIr1 NIH_MGC_50 Homo sapiens cDNA clone IMAGE:3077322 5'
10515	23161	36387	0.55	1.0E-113	BF691687.1	EST_HUMAN	602247740F1 NIH_MGC_62 Homo sapiens cDNA clone IMAGE:4333280 5'
10515	23161	36388	0.55	1.0E-113	BF691687.1	EST_HUMAN	602247740F1 NIH_MGC_62 Homo sapiens cDNA clone IMAGE:4333280 5'
11067	23737	37011	1.83	1.0E-113	AW500519.1	EST_HUMAN	UI-HF-BNO-akj-b-12-0-UIr1 NIH_MGC_50 Homo sapiens cDNA clone IMAGE:3077326 5'
11076	23746	37019	2.84	1.0E-113	AW630291.1	EST_HUMAN	hh81a09.y1 NCL CGAP_GU1 Homo sapiens cDNA clone IMAGE:2969176 5' similar to TR:O60327 O60327 KIAA0584 PROTEIN;
11076	23746	37020	2.84	1.0E-113	AW630291.1	EST_HUMAN	hh81a09.y1 NCL CGAP_GU1 Homo sapiens cDNA clone IMAGE:2969176 5' similar to TR:O60327 O60327 KIAA0584 PROTEIN;
11181	18998	31974	1.39	1.0E-113	6008002	NT	Homo sapiens glutamate receptor, ionotropic, N-methyl D-aspartate 2A (GRIN2A) mRNA
11181	18998	31975	1.39	1.0E-113	6008002	NT	Homo sapiens glutamate receptor, ionotropic, N-methyl D-aspartate 2A (GRIN2A) mRNA
11227	23890	37177	2.81	1.0E-113	BE282668.1	EST_HUMAN	601105529F1 NIH_MGC_15 Homo sapiens cDNA clone IMAGE:2988366 5'
11481	24082	37393	1.32	1.0E-113	AA580720.1	EST_HUMAN	nc80b03.r1 NCL CGAP_GC1 Homo sapiens cDNA clone IMAGE:797069 5' similar to SW:FEN1_HUMAN
11481	24082	37394	1.32	1.0E-113	AA580720.1	EST_HUMAN	P39748 FLAP ENDONUCLEASE-1;
						EST_HUMAN	P39748 FLAP ENDONUCLEASE-1;
630	13409	26045	6.8	1.0E-114	T70551.1	EST_HUMAN	yt15c01.s1 Soares fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:108288 3' similar to gb:A21187 ALPHA-2-MACROGLOBULIN PRECURSOR (HUMAN); contains Alu repetitive element;
1049	13808	26468	1.7	1.0E-114	8923087	NT	Homo sapiens hypothetical protein FLJ20080 (FLJ20080), mRNA
1290	14039	26712	5.09	1.0E-114	7657529	NT	Homo sapiens rhadoid tumor deletion region protein 1 (RTDR1), mRNA
1667	14413	27104	4.27	1.0E-114	6679073	NT	Homo sapiens nucleoporin-like protein 1 (NLP_1), mRNA
2807	12871	25491	1.28	1.0E-114	AB033102.1	NT	Homo sapiens mRNA for KIAA1276 protein, partial cds
2807	12871	25492	1.28	1.0E-114	AB033102.1	NT	Homo sapiens mRNA for KIAA1276 protein, partial cds
3128	15893	28537	2.75	1.0E-114	X04086.1	NT	Human gene for catalase (EC 1.11.1.6) exon 2 mapping to chromosome 11, band p13
3169	15932	28581	1.02	1.0E-114	BF206374.1	EST_HUMAN	601869932F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:4100214 5'
3997	16745	28377	2.61	1.0E-114	AF149773.1	NT	Homo sapiens NOD1 protein (NOD1) gene, exons 1, 2, and 3
4358	17096	29731	0.72	1.0E-114	J03171.1	NT	Human interferon-alpha receptor (HuIFN-alpha-Rec) mRNA, complete cds

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit: Accession No.	Top Hit Database Source	Top Hit Descriptor
5064	17783	30400	1.05	1.0E-114	BE276324.1	EST_HUMAN	601122173F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:3346099 5'
5315	18119	30775	1.26	1.0E-114	4506880	NT	Homo sapiens sema domain, seven thrombospondin repeats (type 1 and type 1-like), transmembrane domain (TM) and short cytoplasmic domain, (semaphorin) 5A (SEMA5A) mRNA
5315	18119	30776	1.26	1.0E-114	4506880	NT	Homo sapiens sema domain, seven thrombospondin repeats (type 1 and type 1-like), transmembrane domain (TM) and short cytoplasmic domain, (semaphorin) 5A (SEMA5A) mRNA
5508	18306	31207	0.97	1.0E-114	9257201	NT	Homo sapiens clathrin, heavy polypeptide-like 1 (CLTCL1), transcript variant 2, mRNA
6134	18912	31881	0.64	1.0E-114	Z26298.1	NT	H. sapiens isoform 1 gene for L-type calcium channel, exon 20
6898	17974	30531	0.62	1.0E-114	4759163	NT	Homo sapiens sparc/osteonectin, cwcw and kazal-like domains proteoglycan (testican) (SPOCK) mRNA
6977	19458		0.95	1.0E-114	AB041533.1	NT	Homo sapiens HCMOG1-1 mRNA for sperm antigen, complete cds
7139	19826	32894	1.02	1.0E-114	AU134187.1	EST_HUMAN	AU134187 OVARC1 Homo sapiens cDNA clone OVARC1001444 5'
7139	19826	32895	1.02	1.0E-114	AU134187.1	EST_HUMAN	AU134187 OVARC1 Homo sapiens cDNA clone OVARC1001444 5'
7182	19868	32941	8.3	1.0E-114	Y18000.1	NT	Homo sapiens NF2 gene
7182	19868	32942	8.3	1.0E-114	Y18000.1	NT	Homo sapiens NF2 gene
7792	20487	33610	2.62	1.0E-114	4557600	NT	Homo sapiens gamma-aminobutyric acid (GABA) A receptor, alpha 2 (GABRA2) mRNA
8087	20761	33869	1.92	1.0E-114	A1363139.1	EST_HUMAN	qy68d06.x1 NCI_CGAP_Bm25 Homo sapiens cDNA clone IMAGE:2017163 3'
8087	20761	33869	1.92	1.0E-114	A1363139.1	EST_HUMAN	qy68d06.x1 NCI_CGAP_Bm25 Homo sapiens cDNA clone IMAGE:2017163 3'
8602	21294	34437	3.81	1.0E-114	U63041.1	NT	Human neural cell adhesion molecule CD56 mRNA, complete cds
8685	21357	34505	6.93	1.0E-114	AB011133.1	NT	Homo sapiens mRNA for KIAA0561 protein, partial cds
8685	21357	34506	6.93	1.0E-114	AB011133.1	NT	Homo sapiens mRNA for KIAA0561 protein, partial cds
9081	21770	34933	0.49	1.0E-114	BF109632.1	EST_HUMAN	7169g12.x1 Soares_NSF_F8_9W_OT_PA_P_S1 Homo sapiens cDNA clone IMAGE:3526847 3' similar to TR-Q9JH6 Q9JH6 TRANSMEMBRANE PROTEIN 2.
9314	21981		6.83	1.0E-114	AW327455.1	EST_HUMAN	dq03f05.x1 NIH_MGC_2 Homo sapiens cDNA clone IMAGE:2846744 5'
9383	20433	33555	2.8	1.0E-114	AF07754.1	NT	Homo sapiens tyrosine kinase pp60c-src (SRC) gene, exon 12 and partial cds
9448	22125		1.03	1.0E-114	M13536.1	NT	Human ceruloplasmin mRNA
10039	22687	35905	1.08	1.0E-114	BE870004.1	EST_HUMAN	601449752F1 NIH_MGC_65 Homo sapiens cDNA clone IMAGE:3553500 5'
10081	22709	35927	1.5	1.0E-114	AL163227.2	NT	Homo sapiens chromosome 21 segment HS21C027
10439	23085	36313	0.7	1.0E-114	BE171984.1	EST_HUMAN	MRO-HT0559-250200-002-d07 HT0559 Homo sapiens cDNA
							ba73gt12.y1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:206086 5' similar to gb.X17206 40S
10687	23378		3.15	1.0E-114	BE302666.1	EST_HUMAN	RIBOSOMAL PROTEIN S4 (HUMAN); gb:M20632 Mouse LLRep3 protein mRNA from a repetitive element, complete (MOUSE);
10789	23472	36714	1.71	1.0E-114	AF223391.1	NT	Homo sapiens calcium channel alpha1E subunit (CACNA1E) gene, exons 7-49, and partial cds, alternatively spliced

Table 4

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
10789	23472	36715	1.71	1.0E-114	AF223391.1	NT	Homo sapiens calcium channel alpha1E subunit (CACNA1E) gene, exons 7-49, and partial cds, alternatively spliced
11145	23812	37094	3	1.0E-114	AV733454.1	EST_HUMAN	AV733454 cda Homo sapiens cDNA clone cdaBA08 5'
11145	23812	37095	3	1.0E-114	AV733454.1	EST_HUMAN	AV733454 cda Homo sapiens cDNA clone cdaBA08 5'
11798	24386	37719	1.7	1.0E-114	4758673	NT	Homo sapiens LIM HOX gene 2 (LHX2) mRNA
11834	24418	37759	1.32	1.0E-114	11526317	NT	Homo sapiens clathrin, heavy polypeptide-like 1 (CLTCL1), mRNA
12334	25402	30998	3.42	1.0E-114	11418041	NT	Homo sapiens TNF-inducible protein CG12-1 (CG12-1), mRNA
12577	24902	30998	4.93	1.0E-114	11034850	NT	Homo sapiens hypothetical protein (DJ1042K10.2), mRNA
12577	24902	30999	4.93	1.0E-114	11034850	NT	Homo sapiens hypothetical protein (DJ1042K10.2), mRNA
21	12849	25464	2.89	1.0E-115	4758111	NT	Homo sapiens HLA-B associated transcript-1 (D6S81E) mRNA
127	12942	25585	2.03	1.0E-115	4505938	NT	Homo sapiens polymerase (RNA) II (DNA directed) polypeptide A (220KD) (POLR2A) mRNA
131	12946	25733	2.33	1.0E-115	4557887	NT	Homo sapiens keratin 18 (KRT18) mRNA
286	13092	25733	2.23	1.0E-115	AW804759.1	EST_HUMAN	QV4-UM0094-300300-156-508 Homo sapiens cDNA
523	13307	25939	0.99	1.0E-115	A139206.1	EST_HUMAN	q06f01.x1 NCI_CGAP_GC4 Homo sapiens cDNA clone IMAGE:1946809 3' similar to TR:O00536 O00536
523	13307	25940	0.99	1.0E-115	A139206.1	EST_HUMAN	TTF-1 INTERACTING PEPTIDE 5:
769	13541	26201	1.36	1.0E-115	5174702	NT	TTF-1 INTERACTING PEPTIDE 5:
769	13541	26202	1.36	1.0E-115	5174702	NT	TTF-1 INTERACTING PEPTIDE 5:
771	13543	26204	40.4	1.0E-115	4503784	NT	Homo sapiens transforming growth factor beta-activated kinase-binding protein 1 (TAB1), mRNA
1552	14298	26985	1.26	1.0E-115	AF229180.1	NT	Homo sapiens ferritin, heavy polypeptide 1 (FTH1) mRNA
1552	14298	26986	1.26	1.0E-115	AF229180.1	NT	Homo sapiens alpha-aminoadipate semialdehyde synthase mRNA, complete cds
1833	14572	27285	1.01	1.0E-115	U78027.1	NT	Homo sapiens alpha-aminoadipate semialdehyde synthase mRNA, complete cds
2078	14810	27541	0.96	1.0E-115	AB007802.1	NT	Homo sapiens Brulon's tyrosine kinase (BTK), alpha-D-galactosidase A (GLA), L44-like ribosomal protein (L44L) and FTP3 (FTP3) genes, complete cds
2298	15023	27758	2.13	1.0E-115	AF231124.1	NT	Homo sapiens KIAA0442 mRNA, partial cds
2855	15623	28518	1.39	1.0E-115	AW804759.1	EST_HUMAN	Homo sapiens testican-1 mRNA, complete cds
3113	15878	28519	6.22	1.0E-115	AJ245922.1	NT	QV4-UM0094-300300-156-508 Homo sapiens cDNA
3113	15878	28519	6.22	1.0E-115	AJ245922.1	NT	Homo sapiens mRNA for alpha-tubulin 8 (TUBA8 gene)
3465	16221	28875	1.6	1.0E-115	AJ277892.1	NT	Homo sapiens mRNA for alpha-tubulin 8 (TUBA8 gene)
4021	16767	29397	3.67	1.0E-115	AB002348.2	NT	Homo sapiens partial TTN gene for titin
4369	17107	29742	3.27	1.0E-115	9912659	NT	Homo sapiens mRNA for KIAA0350 protein, partial cds
4403	17140	29768	3.6	1.0E-115	4758279	NT	Homo sapiens sir2-like 3 (SIRT3), mRNA
4628	17363	29986	2.64	1.0E-115	AL096857.1	NT	Homo sapiens EphA4 (EPHA4) mRNA
							Novel human mRNA from chromosome 1, which has similarities to BAT2 genes

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
4628	17363	25997	2.64	1.0E-115	AL096857.1	NT	Novel human mRNA from chromosome 1, which has similarities to BAT2 genes
4848	17578	30201	3.51	1.0E-115	AL163288.2	NT	Homo sapiens chromosome 21 segment HS21C068
4848	17578	30202	3.51	1.0E-115	AL163288.2	NT	Homo sapiens chromosome 21 segment HS21C068
5263	18069	30698	1.62	1.0E-115	AW970335.1	EST_HUMAN	EST382416 MAGE resequencing, MAGK Homo sapiens cDNA
5338	18141	30802	0.78	1.0E-115	BF665387.1	EST_HUMAN	6021193467-1 NIH_MGC_56 Homo sapiens cDNA clone IMAGE:4276738 5'
5454	18253	31143	1.96	1.0E-115	11425128	NT	Homo sapiens similar to ER to nucleus signalling 1 (H. sapiens) (LOC63433), mRNA
5454	18253	31144	1.96	1.0E-115	11425128	NT	Homo sapiens similar to ER to nucleus signalling 1 (H. sapiens) (LOC63433), mRNA
5604	18400	31313	1.34	1.0E-115	A1928799.1	EST_HUMAN	au64g01.x1 Schneider fetal brain 00004 Homo sapiens cDNA clone IMAGE:2519568 3' similar to gb:L07807 DYNAMIN-1 (HUMAN);
5604	18400	31314	1.34	1.0E-115	A1928799.1	EST_HUMAN	au64g01.x1 Schneider fetal brain 00004 Homo sapiens cDNA clone IMAGE:2519568 3' similar to gb:L07807 DYNAMIN-1 (HUMAN);
6168	18945	31916	0.97	1.0E-115	11426786	NT	Homo sapiens sperm surface protein (HSS), mRNA
6168	18945	31917	0.97	1.0E-115	11426786	NT	Homo sapiens sperm surface protein (HSS), mRNA
6302	19075	32061	9.84	1.0E-115	11426038	NT	Homo sapiens similar to ribosomal protein S26 (H. sapiens) (LOC63436), mRNA
8434	19202	32198	2.04	1.0E-115	7661883	NT	Homo sapiens KIAA0054 gene product; Helicase (KIAA0054), mRNA
8434	19202	32199	2.04	1.0E-115	7661883	NT	Homo sapiens KIAA0054 gene product; Helicase (KIAA0054), mRNA
8835	19497	32521	0.83	1.0E-115	T86774.1	EST_HUMAN	w86b08.r1 Soares fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:115095 5' similar to SP-DPOG_YEAST P15801 DNA POLYMERASE GAMMA;
7178	19864	32635	1.54	1.0E-115	A1076598.1	EST_HUMAN	oz31a06.x1 Soares total_fetus_Nb2HF8_9w Homo sapiens cDNA clone IMAGE:1676914 3'
7178	19864	32636	1.54	1.0E-115	A1076598.1	EST_HUMAN	oz31a06.x1 Soares total_fetus_Nb2HF8_9w Homo sapiens cDNA clone IMAGE:1676914 3'
7308	19991	33068	8.22	1.0E-115	AB023212.1	NT	Homo sapiens mRNA for KIAA0995 protein, partial cds
8080	20754	33685	13.71	1.0E-115	BE830187.1	EST_HUMAN	RC8-E10081-130700-011-G01 ET0081 Homo sapiens cDNA
8060	20764	33886	13.71	1.0E-115	BE830187.1	EST_HUMAN	RC8-E10081-130700-011-G01 ET0081 Homo sapiens cDNA
8712	21404	34548	2.15	1.0E-115	11434772	NT	Homo sapiens eukaryotic translation initiation factor 4B (EIF4B), mRNA
8675	22327	35522	0.6	1.0E-115	BF382026.1	EST_HUMAN	Human mRNA for KIAA0338 gene, partial cds
9899	22549	35743	2.25	1.0E-115	AB002336.1	NT	Human mRNA for KIAA0338 gene, partial cds
9899	22549	35744	2.25	1.0E-115	AB002336.1	NT	Human mRNA for KIAA0338 gene, partial cds
10418	23064	36284	1	1.0E-115	A1221878.1	EST_HUMAN	gg99e09.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:1843336 3'
10418	23064	36285	1	1.0E-115	A1221878.1	EST_HUMAN	gg99e09.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:1843336 3'
10426	23072	36293	0.82	1.0E-115	A1624687.1	EST_HUMAN	fh12a07.x1 NCI_CGAP_GCL1 Homo sapiens cDNA clone IMAGE:2118036 3' similar to TR:O16129 O16129 PHENYLALANYL TRNA SYNTHETASE;
10617	23310	36549	7.62	1.0E-115	AW571544.1	EST_HUMAN	x02208.x1 NCI_CGAP_UH1 Homo sapiens cDNA clone IMAGE:2839239 3' similar to SW:CAYP_CANFA
10668	23549	36797	1.33	1.0E-115	9910278	NT	P10463 CALYPTOPHOSINE;
							Homo sapiens UDP-glucose:glycoprotein glucosyltransferase 1 (HUGT1), mRNA

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11225	23888	37174	1.54	1.0E-115	BE045890.1	EST_HUMAN	h454c10.x1 NCI_CGAP_Pan3 Homo sapiens cDNA clone IMAGE:3123186 3' similar to TR:O88378 O88378
11225	23888	37175	1.54	1.0E-115	BE045890.1	EST_HUMAN	PRP4 PROTEIN KINASE HOMOLOG ;
11374	23981	37281	2.27	1.0E-115	4502528	NT	h454c10.x1 NCI_CGAP_Pan3 Homo sapiens cDNA clone IMAGE:3123186 3' similar to TR:O88378 O88378
11775	24366	37699	2.53	1.0E-115	BE255549.1	EST_HUMAN	PRP4 PROTEIN KINASE HOMOLOG ;
11842	24426	37767	1.63	1.0E-115	AW884375.1	EST_HUMAN	Homo sapiens calcium channel, voltage-dependent, alpha 1E subunit (CACNA1E) mRNA
11920	24481		2.16	1.0E-115	AF240786.1	NT	QV3-OT0065-290300-137-112 OT0065 Homo sapiens cDNA
559	13341	25969	1.98	1.0E-116	BE275502.1	EST_HUMAN	Homo sapiens glutathione S-transferase theta 2 (GSTT2) and glutathione S-transferase theta 1 (GSTT1) genes, complete cds
783	13555	26216	2.21	1.0E-116	4507334	NT	601121347F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:2988875 5'
839	13609		1.76	1.0E-116	4507334	NT	Homo sapiens synaptobrian 1 (SYNJ1), mRNA
1990	14726	27447	2.55	1.0E-116	5174478	NT	Homo sapiens synaptobrian 1 (SYNJ1), mRNA
1990	14726	27448	2.55	1.0E-116	5174478	NT	Homo sapiens pericentrin (PCNT) mRNA
2090	15585	27552	2.6	1.0E-116	M19824.1	NT	Homo sapiens pericentrin (PCNT) mRNA
2090	15585	27553	2.6	1.0E-116	M19824.1	NT	Human apolipoprotein B-100 (apoB) gene, exons 17 and 18
2305	15030	27767	1.95	1.0E-116	5453941	NT	Human apolipoprotein B-100 (apoB) gene, exons 17 and 18
2340	15063		1.36	1.0E-116	U78308.1	NT	Homo sapiens protein phosphatase, EF hand calcium-binding domain 1 (PPEF1) mRNA
2458	15176	27915	2.84	1.0E-116	AB018333.1	NT	Human olfactory receptor olfr17-201-1 (OR17-201-1) gene, olfactory receptor olfr17-32 (OR17-32) gene and olfactory receptor pseudo, olfr17-01 (OR17-01) pseudogene, complete cds
2738	15533	28183	1.53	1.0E-116	BE889256.1	EST_HUMAN	Homo sapiens mRNA for KIAA0760 protein, partial cds
3171	15934	28582	4.97	1.0E-116	L77570.1	NT	601513337F1 NIH_MGC_71 Homo sapiens cDNA clone IMAGE:3914600 5'
3171	15934	28583	4.87	1.0E-116	L77570.1	NT	Homo sapiens DiGeorge syndrome critical region, centromeric end
4345	17084	29713	2.43	1.0E-116	5031954	NT	Homo sapiens DiGeorge syndrome critical region, centromeric end
4803	17534	30156	1.57	1.0E-116	A1907096.1	EST_HUMAN	Homo sapiens sodium phosphate transporter 3 (NP73) mRNA
5197	18005	30627	0.87	1.0E-116	A1302062.1	EST_HUMAN	PM-BT135-070408-016 BT135 Homo sapiens cDNA
5889	18674	31619	4.4	1.0E-116	W42822.1	EST_HUMAN	q19d04.x1 NCI_CGAP_Lu5 Homo sapiens cDNA clone IMAGE:1888695 3' similar to contains element
6117	18895	31862	1.8	1.0E-116	AB048856.1	NT	z24407.11 Soares, senescent fibroblasts, NPHSF Homo sapiens cDNA clone IMAGE:323245 5' similar to SW:MDHM_MOUSE P08249 MALATE DEHYDROGENASE, MITOCHONDRIAL PRECURSOR ;
6117	18895	31863	1.8	1.0E-116	AB048856.1	NT	Homo sapiens mRNA for KIAA1636 protein, partial cds
6184	18991	31934	0.76	1.0E-116	BE408097.1	EST_HUMAN	Homo sapiens mRNA for KIAA1636 protein, partial cds
6421	19189		1.55	1.0E-116	BE158133.1	EST_HUMAN	601302281F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3636764 5'
							MR2-HT0379-210200-102-804 HT0379 Homo sapiens cDNA

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
6844	19544	32572	1.19	1.0E-116	C02944.1	EST_HUMAN	C02944 Human heart cDNA (YNakamura) Homo sapiens cDNA clone 3NH C0567
7102	19790	32855	5.74	1.0E-116	AV716314.1	EST_HUMAN	AV716314 DCB Homo sapiens cDNA clone DCBCCG08 5'
8267	20961	34101	1.37	1.0E-116	AA354256.1	EST_HUMAN	EST62895 Jurkat T-cells V Homo sapiens cDNA 5' end similar to keratin 2
8267	20961	34102	1.37	1.0E-116	AA354256.1	EST_HUMAN	EST62895 Jurkat T-cells V Homo sapiens cDNA 5' end similar to keratin 2
8378	21071	34209	0.98	1.0E-116	AI804151.1	EST_HUMAN	CM-BT043-090298-075 BT043 Homo sapiens cDNA
8836	21528	34674	1.66	1.0E-116	BE565907.1	EST_HUMAN	601338268F1 NIH_MGC_53 Homo sapiens cDNA clone IMAGE:3680680 5'
8997	21687	34837	1.61	1.0E-116	AI218352.1	EST_HUMAN	qh09c05.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:1844168 3' similar to gp-X53741_ma1 FIBULIN-1, ISOFORM A PRECURSOR (HUMAN);
9573	22228	35411	1.52	1.0E-116	11418648	NT	Homo sapiens laminin, alpha 2 (merosin, congenital muscular dystrophy) (LAMA2), mRNA
10170	22818	36036	0.74	1.0E-116	AJ277441.1	NT	Homo sapiens partial mRNA for xylosyltransferase I (XT-1 gene)
10170	22818	36037	0.74	1.0E-116	AJ277441.1	NT	Homo sapiens partial mRNA for xylosyltransferase I (XT-1 gene)
10248	22894	36104	0.78	1.0E-116	BE158913.1	EST_HUMAN	QV4-HT0401-281299-063-c09 HT0401 Homo sapiens cDNA
10586	23281	36519	2.4	1.0E-116	BF335849.1	EST_HUMAN	CM2-CT0482-300800-349-c06 CT0482 Homo sapiens cDNA
11080	23750	37025	2.85	1.0E-116	AI397140.1	EST_HUMAN	qq41e04.x1 Soares_Nhi-IMPu_S1 Homo sapiens cDNA clone IMAGE:1936102 3' similar to WP:B0495.7
12625	25237		1.86	1.0E-116	AL134899.1	EST_HUMAN	CE01765 ;
545	13328	25959	1.67	1.0E-117	4826636	NT	DKFZp762L1110_r1 762 (synonym: hme12) Homo sapiens cDNA clone DKFZp762L1110 5'
1055	15559	26474	0.96	1.0E-117	AF124393.1	NT	Homo sapiens acetyl-Coenzyme A carboxylase alpha (ACACA), mRNA
1747	14489	27188	1.02	1.0E-117	AF123320.1	NT	Mus musculus fragile-X-related protein 1 (Fxr1h) gene, exons 13a through 15
1823	14562	27274	1.51	1.0E-117	MF9816.1	NT	Homo sapiens lymphocyte activation-associated protein mRNA, complete cds
2208	14836	27674	1.54	1.0E-117	AW957699.1	EST_HUMAN	Human apolipoprotein B-100 (apoB) gene, exon 10
3282	16024	28674	1.64	1.0E-117	AA978114.1	EST_HUMAN	EST389769 MAGE resequences, MAGE Homo sapiens cDNA
3971	16720	29355	2.1	1.0E-117	AA316723.1	EST_HUMAN	op32c11.s1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:1578548 3'
4310	17049	29874	2.03	1.0E-117	8659564	NT	EST188414 HCC cell line (metastasis to liver in mouse) II Homo sapiens cDNA 5' end similar to ribosomal protein L29
4538	17273	29905	2.95	1.0E-117	AL042120.1	EST_HUMAN	Homo sapiens collagen, type IV, alpha 5 (Alport syndrome) (COL4A5), mRNA
4674	17408	30043	1.27	1.0E-117	X89670.1	NT	DKFZp434C1120_r1 434 (synonym: hhes3) Homo sapiens cDNA clone DKFZp434C1120 5'
4674	17408	30044	1.27	1.0E-117	X89670.1	NT	Hi.sapiens mRNA for TPOR16 protein
4759	17491	30119	10.03	1.0E-117	AF134304.2	NT	Hi.sapiens mRNA for TPOR16 protein
4759	17491	30120	10.03	1.0E-117	AF134304.2	NT	Homo sapiens Scar2 (SCAR2) gene, partial cds
4887	17614	30233	3.57	1.0E-117	AB020673.1	NT	Homo sapiens Scar2 (SCAR2) gene, partial cds
						NT	Homo sapiens mRNA for KIAA0896 protein, complete cds
5136	17654	30471	0.73	1.0E-117	6912461	NT	Homo sapiens atrophin-1 interacting protein 1; activin receptor interacting protein 1 (KIAA0705), mRNA
5264	18070	30699	3.01	1.0E-117	BE730508.1	EST_HUMAN	601562667F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:3832214 5'

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
6860	17937	30574	0.86	1.0E-117	AA323348.1	EST_HUMAN	EST26111 Cerebellum II Homo sapiens cDNA 5' end similar to similar to zinc finger domain
7350	20031	33108	5.01	1.0E-117	L76571.1	NT	Homo sapiens nuclear hormone receptor (shp) gene, 3' end of cds
7350	20031	33109	5.01	1.0E-117	L76571.1	NT	Homo sapiens nuclear hormone receptor (shp) gene, 3' end of cds
7446	20122	33212	1.75	1.0E-117	AV717788.1	EST_HUMAN	AV717788 DCB Homo sapiens cDNA clone DCBBAE01 5'
7446	20122	33213	1.75	1.0E-117	AV717788.1	EST_HUMAN	AV717788 DCB Homo sapiens cDNA clone DCBBAE01 5'
					wp86b07.x1 NC1 CGAP	Brn25 Homo sapiens cDNA clone IMAGE:2468629 3' similar to TR:O75065	
7878	20573	33699	3.38	1.0E-117	A950145.1	EST_HUMAN	O75065 KIAA0477 PROTEIN ;
8210	20904	34039	2.29	1.0E-117	10834989	NT	Homo sapiens neural cell adhesion molecule 1 (NCAM1), mRNA
8210	20904	34040	2.29	1.0E-117	10834989	NT	Homo sapiens neural cell adhesion molecule 1 (NCAM1), mRNA
8310	21004	34141	0.56	1.0E-117	A1904151.1	EST_HUMAN	CM-BT043-090298-075 BT043 Homo sapiens cDNA
8310	21004	34142	0.56	1.0E-117	A1904151.1	EST_HUMAN	CM-BT043-090299-075 BT043 Homo sapiens cDNA
9199	21868	35033	2.25	1.0E-117	D16524.1	NT	Human gene for very low density lipoprotein receptor, exon 11
9686	22338	35332	2.07	1.0E-117	BE733922.1	EST_HUMAN	601569317F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3843748 5'
9848	25127	35697	2.9	1.0E-117	AF099033.1	NT	Homo sapiens gamma-aminobutyric acid type B receptor 2 (GABABR2) mRNA, complete cds
10469	23115	36345	1.11	1.0E-117	11420222	NT	Homo sapiens Drosophila Kelch like protein (DKELCHL), mRNA
10765	23449	36691	1.77	1.0E-117	D83776.1	NT	Human mRNA for KIAA0191 gene, partial cds
10964	23640	36891	2.68	1.0E-117	11424835	NT	Homo sapiens protein (peptidyl-prolyl cis/trans isomerase) NIMA-interacting 1 (PIN1), mRNA
10964	23640	36892	2.68	1.0E-117	11424835	NT	Homo sapiens protein (peptidyl-prolyl cis/trans isomerase) NIMA-interacting 1 (PIN1), mRNA
11243	23905	37196	3.32	1.0E-117	AB011541.1	NT	Homo sapiens mRNA for MEGF8, partial cds
11243	23905	37197	3.32	1.0E-117	AB011541.1	NT	Homo sapiens mRNA for MEGF8, partial cds
11369	23976	37501	14.73	1.0E-117	BE269856.1	EST_HUMAN	601186203F1 NIH_MGC_8 Homo sapiens cDNA clone IMAGE:3544288 5'
11587	24186	37502	2.02	1.0E-117	4501848	NT	Homo sapiens ATP-binding cassette, sub-family A (ABC1), member 3 (ABCA3), mRNA
11587	24186	37502	2.02	1.0E-117	4501848	NT	Homo sapiens ATP-binding cassette, sub-family A (ABC1), member 3 (ABCA3), mRNA
68	12896	25530	5.98	1.0E-118	AF161500.1	NT	Homo sapiens HSPC151 mRNA, complete cds
94	12920	25557	2.13	1.0E-118	AL045854.1	EST_HUMAN	DKFZ4341056.1 434 (synonym: htes3) Homo sapiens cDNA clone DKFZ4341056 5'
504	13288	25922	5.87	1.0E-118	7657016	NT	Homo sapiens hypothetical protein (DJ329E19.01.1), mRNA
894	15555	26328	0.96	1.0E-118	5174680	NT	Homo sapiens sine oculis homeobox (Drosophila) homolog 1 (SIX1) mRNA
2227	14955	27693	2.04	1.0E-118	BE389705.1	EST_HUMAN	601281947F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3604019 5'
2227	14955	27694	2.04	1.0E-118	BE389705.1	EST_HUMAN	601281947F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3604019 5'
2227	14955	27695	2.04	1.0E-118	BE389705.1	EST_HUMAN	601281947F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3604019 5'
2328	15054		1.68	1.0E-118	AW951729.1	EST_HUMAN	EST363799 MAOE sequences; MAGB Homo sapiens cDNA
2744	15450	28189	2.61	1.0E-118	U07000.1	NT	Human breakpoint cluster region (BCR) gene, complete cds
2744	15450	28190	2.61	1.0E-118	U07000.1	NT	Human breakpoint cluster region (BCR) gene, complete cds
3102	15867		4.64	1.0E-118	Y13932.1	NT	Homo sapiens PRKY exon 7

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Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
3190	15953	28605	4.97	1.0E-118	AI347694.1	EST_HUMAN	qp01f05.x1 NCI_CGAP_Kid5 Homo sapiens cDNA clone IMAGE:1916769 3'
3190	15953	28606	4.67	1.0E-118	AI347694.1	EST_HUMAN	qp01f05.x1 NCI_CGAP_Kid5 Homo sapiens cDNA clone IMAGE:1916769 3'
4067	19811	29439	4.77	1.0E-118	D23660.1	NT	Human mRNA for ribosomal protein, complete cds
4659	17393	30028	0.9	1.0E-118	11425793	NT	Homo sapiens KIAA0478 gene product (KIAA0478), mRNA
5337	18140	30800	1.87	1.0E-118	AF142624.1	NT	Homo sapiens calcium channel gamma 4 subunit (CACNG4) gene, exon 3
5337	18140	30801	1.87	1.0E-118	AF142624.1	NT	Homo sapiens calcium channel gamma 4 subunit (CACNG4) gene, exon 3
5543	18340	31247	0.94	1.0E-118	11422054	NT	Homo sapiens reelin (RELN), mRNA
5543	18340	31248	0.94	1.0E-118	11422054	NT	Homo sapiens reelin (RELN), mRNA
5684	18477	31395	1.24	1.0E-118	M55109.1	NT	Human cystic fibrosis transmembrane conductance regulator (CFTR) gene, exon 4
6772	18563	31491	0.83	1.0E-118	11425900	NT	Homo sapiens T-box 4 (TBX4), mRNA
6772	18563	31492	0.83	1.0E-118	11425900	NT	Homo sapiens T-box 4 (TBX4), mRNA
5853	18640	31578	1.49	1.0E-118	11420764	NT	Homo sapiens transient receptor potential channel 5 (TRPC5), mRNA
6592	19355	32368	1.44	1.0E-118	4557732	NT	Homo sapiens latent transforming growth factor beta binding protein 2 (LTBP2) mRNA
6592	19355	32369	1.44	1.0E-118	4557732	NT	Homo sapiens latent transforming growth factor beta binding protein 2 (LTBP2) mRNA
6997	19689	32738	1.12	1.0E-118	AL043761.1	EST_HUMAN	DKFZp434O0127.1 434 (synonym: htes3) Homo sapiens cDNA clone DKFZp434O0127 5'
6997	19689	32739	1.12	1.0E-118	AL043761.1	EST_HUMAN	DKFZp434O0127.1 434 (synonym: htes3) Homo sapiens cDNA clone DKFZp434O0127 5'
7500	20172	33284	5.63	1.0E-118	11431050	NT	Homo sapiens chromosome 2 open reading frame 3 (C2ORF3), mRNA
7733	20397	33512	0.86	1.0E-118	BF685272.1	EST_HUMAN	602141820F1 NIH_MGC_46 Homo sapiens cDNA clone IMAGE:4302749 5'
7872	20587	33693	2.17	1.0E-118	BE781223.1	EST_HUMAN	601469159F1 NIH_MGC_67 Homo sapiens cDNA clone IMAGE:3872247 5'
8282	20976	34116	6.58	1.0E-118	BE062855.1	EST_HUMAN	QV0-BT0263-090200-097-h03 BT0263 Homo sapiens cDNA
8282	20976	34117	6.58	1.0E-118	BE062855.1	EST_HUMAN	QV0-BT0263-090200-097-h03 BT0263 Homo sapiens cDNA
8288	20982	34122	1.37	1.0E-118	AA443024.1	EST_HUMAN	z98407.1 Soares_NhHMPu_ST Homo sapiens cDNA clone IMAGE:811789 5'
8288	20982	34123	1.37	1.0E-118	AA443024.1	EST_HUMAN	z98407.1 Soares_NhHMPu_ST Homo sapiens cDNA clone IMAGE:811789 5'
8573	21265	34404	1.01	1.0E-118	AB002381.1	NT	Human mRNA for KIAA0383 gene, partial cds
8573	21265	34405	1.01	1.0E-118	AB002381.1	NT	Human mRNA for KIAA0383 gene, partial cds
8621	21313	34456	2.06	1.0E-118	4557732	NT	Homo sapiens latent transforming growth factor beta binding protein 2 (LTBP2) mRNA
8621	21313	34456	2.06	1.0E-118	4557732	NT	Homo sapiens latent transforming growth factor beta binding protein 2 (LTBP2) mRNA
8933	21624	34767	4.95	1.0E-118	BE263134.1	EST_HUMAN	601144863F2 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:3160502 5'
8964	21655	34806	0.55	1.0E-118	AL048474.2	EST_HUMAN	DKFZp586K1824.1 586 (synonym: huter1) Homo sapiens cDNA clone DKFZp586K1824
9493	22146	35327	1.53	1.0E-118	7657016	NT	Homo sapiens hypothetical protein (DJ328E19 C1.1), mRNA
9886	22536	35731	0.98	1.0E-118	AL138321.1	EST_HUMAN	DKFZp547O017.1 547 (synonym: htfbr1) Homo sapiens cDNA clone DKFZp547O017 5'
10274	22922	36134	1.88	1.0E-118	BF195407.1	EST_HUMAN	7n17609.x1 NCI_CGAP_Bm23 Homo sapiens cDNA clone IMAGE:3564785 3' similar to SW:ZP3A_HUMAN P21754 ZONA PELLUCIDA SPERM-BINDING PROTEIN 3A PRECURSOR ;

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
10385	23012	36227	0.46	1.0E-118	AW271289.1	EST_HUMAN	xs46a10.x1 NCI_CGAP_Kid11 Homo sapiens cDNA clone IMAGE:2772666 3' similar to
10431	23077	36300	0.65	1.0E-118	AW296351.1	EST_HUMAN	SW_BODG_HUMAN 075936 GAMMA-BUTYROBETALINE, 2-OXOGLUTARATE DIOXYGENASE ;
11206	23869	37155	1.61	1.0E-118	BF685214.1	EST_HUMAN	UIH-BW0-alc-a-07-q-UI.s1 NCI_CGAP_Sub6 Homo sapiens cDNA clone IMAGE:2729772 3'
11236	23899	37186	1.8	1.0E-118	11055968	NT	602141529F1 NIH_MGC_46 Homo sapiens cDNA clone IMAGE:4302798 5'
11246	23908	37201	10.23	1.0E-118	AA315007.1	EST_HUMAN	Homo sapiens protein with polyglutamine repeat; calcium (ca2+) homeostasis endoplasmic reticulum protein (ERPROT213-21), mRNA
11548	24147	37457	1.68	1.0E-118	BE080676.1	EST_HUMAN	EST186814 HCC cell line (metastasis to liver in mouse) II Homo sapiens cDNA 5' end similar to dynein, light chain 1, cytoplasmic
11548	24147	37458	1.68	1.0E-118	BE090676.1	EST_HUMAN	601499514F1 NIH_MGC_70 Homo sapiens cDNA clone IMAGE:3901563 5'
11551	24150	37461	1.61	1.0E-118	BF093687.1	EST_HUMAN	601499514F1 NIH_MGC_70 Homo sapiens cDNA clone IMAGE:3901563 5'
11551	24150	37462	1.61	1.0E-118	BF093687.1	EST_HUMAN	QV0-UM0091-120900-385-b12 UM0091 Homo sapiens cDNA
741	13514	26173	0.97	1.0E-119	AF170492.1	NT	Homo sapiens chloride channel CLC4 (CLC4) mRNA, complete cds
1014	15558	26433	1.61	1.0E-119	7705607	NT	Homo sapiens CG1-105 protein (LOC51011), mRNA
1926	14662	27374	5.97	1.0E-119	AB023147.1	NT	Homo sapiens mRNA for KIA0930 protein, partial cds
3089	15964	28508	1.57	1.0E-119	8922205	NT	Homo sapiens hypothetical protein FLJ10052 (FLJ10052), mRNA
3234	15996		0.8	1.0E-119	AA916780.1	EST_HUMAN	on10b05.s1 NCI_CGAP_Lu6 Homo sapiens cDNA clone IMAGE:1556241 3' similar to WP:EO4F6.2
3834	16884	28325	1.42	1.0E-119	4504116	NT	CE01214 ;
5253	18059	30688	2.5	1.0E-119	AI133399.1	EST_HUMAN	Homo sapiens glutamate receptor, ionotropic, kainate 1 (GRIK1) mRNA
5266	18072	30701	21.82	1.0E-119	M89914.1	NT	AU133399 NT2RP4 Homo sapiens cDNA clone NT2RP4001991 5'
5270	18076	30706	3.11	1.0E-119	BE936121.1	EST_HUMAN	Human neurofibromin (NF1) gene, complete cds
5347	18150	30830	1.63	1.0E-119	AV693731.1	EST_HUMAN	RC1-NN0073-250800-018-g06 NN0073 Homo sapiens cDNA
5503	18301	31201	0.63	1.0E-119	AL134803.1	EST_HUMAN	AV693731 GKC Homo sapiens cDNA clone GKCDHB03 5'
5503	18301	31202	0.63	1.0E-119	AL134803.1	EST_HUMAN	DKFZp762M0710_r1 762 (synonym: hmel2) Homo sapiens cDNA clone DKFZp762M0710 5'
6036	18816	31776	7.87	1.0E-119	AI150703.1	EST_HUMAN	DKFZp762M0710_r1 762 (synonym: hmel2) Homo sapiens cDNA clone DKFZp762M0710 5'
6190	18967	31940	0.92	1.0E-119	AF315683.1	NT	qb77c08.x1 Soares fetal heart NbHH19W Homo sapiens cDNA clone DKFZp762M0710 5'
6190	18967	31941	0.92	1.0E-119	AF315683.1	NT	SW_K1CJ_MOUSE P02635 KERATIN, TYPE I CYTOSKELETAL 10 ;
6239	19013	31987	0.85	1.0E-119	AI476732.1	EST_HUMAN	Homo sapiens matrix metalloproteinase 28 (MMP28) mRNA, complete cds
6370	19139	32135	2.62	1.0E-119	X06292.1	NT	Homo sapiens matrix metalloproteinase 28 (MMP28) mRNA, complete cds
6380	19149	32148	4.69	1.0E-119	AW874193.1	EST_HUMAN	tm23f10.x1 Soares NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2157451 3'
7310	19993	33070	1.5	1.0E-119	BE796614.1	EST_HUMAN	Human c-fes/fps proto-oncogene
8560	21252	34390	1.19	1.0E-119	BE16150.1	EST_HUMAN	EST386296 IMAGE resequences, MAGM Homo sapiens cDNA
						EST_HUMAN	601592005F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3946081 5'
						EST_HUMAN	601280564F1 NIH_MGC_39 Homo sapiens cDNA clone IMAGE:3622526 5'

Table 4
Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
9807	22455	35683	1.15	1.0E-119	1103643	NT	Homo sapiens KIA04077 gene product (KIA04077), mRNA
10006	22654	35867	0.55	1.0E-119	A1149796.1	EST_HUMAN	q43a11.x1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:1752764 3' similar to TR:Q13458
10146	22794	36008	3.35	1.0E-119	AA465124.1	EST_HUMAN	Q13458 GUANINE NUCLEOTIDE EXCHANGE FACTOR PROTEIN TRIO. ;
10401	23047	36263	1.29	1.0E-119	AJ297701.1	NT	aa32105.r1 NCJ_CGAP_GCB1 Homo sapiens cDNA clone IMAGE:814977 5'
10443	23089	36317	0.71	1.0E-119	11425837	NT	Homo sapiens partial IL-12RB1 gene for IL-12 receptor beta1 chain, exons 16-17
10443	23089	36318	0.71	1.0E-119	11425837	NT	Homo sapiens hypothetical protein FLJ10206 (FLJ10206), mRNA
10517	23163	36390	4.16	1.0E-119	AB032261.1	NT	Homo sapiens Sod mRNA for stearoyl-CoA desaturase, complete cds
10985	23660	36913	2.38	1.0E-119	AJ297701.1	NT	Homo sapiens partial IL-12RB1 gene for IL-12 receptor beta1 chain, exons 16-17
10985	23660	36914	2.38	1.0E-119	AJ297701.1	NT	Homo sapiens partial IL-12RB1 gene for IL-12 receptor beta1 chain, exons 16-17
11159	23826		6.31	1.0E-119	BF569571.1	EST_HUMAN	602186072F1 NIH_MGC_45 Homo sapiens cDNA clone IMAGE:4310633 5'
12198	25326		2.16	1.0E-119	AW847519.1	EST_HUMAN	RC3-CT0212-240998-011-f03 CT0212 Homo sapiens cDNA
284	13100	25741	1.43	1.0E-120	4507334	NT	Homo sapiens synaptobrevin 1 (SYNJ1), mRNA
1018	13778	26439	2.49	1.0E-120	AF248540.1	NT	Homo sapiens Intersectin 2 (SH3D1B) mRNA, complete cds
1018	13778	26440	2.49	1.0E-120	AF248540.1	NT	Homo sapiens Intersectin 2 (SH3D1B) mRNA, complete cds
1405	14152	26832	2.31	1.0E-120	N44873.1	EST_HUMAN	W40g12.r1 Soares_melanocyte 2NbrHM Homo sapiens cDNA clone IMAGE:273766 5'
1597	14343	27033	3.08	1.0E-120	AF167706.1	NT	Homo sapiens cysteine-rich repeat-containing protein S52 precursor, mRNA, complete cds
1799	14539	27250	1.21	1.0E-120	AB011399.1	NT	Homo sapiens gene for AF-6, complete cds
2100	14831	27565	0.92	1.0E-120	AB011399.1	NT	Homo sapiens gene for AF-6, complete cds
2100	14831	27566	0.92	1.0E-120	AB011399.1	NT	Homo sapiens gene for AF-6, complete cds
2531	15247	27985	5.24	1.0E-120	4755124	NT	Homo sapiens aquaporin 4 (AQP4), splice variant b, mRNA
3302	13100	25741	1.59	1.0E-120	4507334	NT	Homo sapiens synaptobrevin 1 (SYNJ1), mRNA
4325	17064	29692	1.95	1.0E-120	AF056490.1	NT	Homo sapiens cAMP-specific phosphodiesterase 8A (PDE8A) mRNA, partial cds
4325	17064	29693	1.95	1.0E-120	AF056490.1	NT	Homo sapiens cAMP-specific phosphodiesterase 8A (PDE8A) mRNA, partial cds
4614	17349	29983	2.22	1.0E-120	AF098463.1	NT	Homo sapiens stanniocalcin (STC) gene, partial cds
4614	17349	29984	2.22	1.0E-120	AF098463.1	NT	Homo sapiens stanniocalcin (STC) gene, partial cds
5065	17784	30401	1.38	1.0E-120	4504116	NT	Homo sapiens glutamate receptor, ionotropic, kainate 1 (GRIK1) mRNA
5133	17851	30468	0.9	1.0E-120	A1190903.1	EST_HUMAN	qd61f03.x1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:1733981 3'
5649	18444	31357	16.61	1.0E-120	BF568222.1	EST_HUMAN	602183994F1 NIH_MGC_42 Homo sapiens cDNA clone IMAGE:4300174 5'
5649	18444	31358	16.61	1.0E-120	BF568222.1	EST_HUMAN	602183994F1 NIH_MGC_42 Homo sapiens cDNA clone IMAGE:4300174 5'
6350	19120	32110	0.57	1.0E-120	M29428.1	NT	Human P-glycoprotein (MDR1) gene, exons 6 and 7
6350	19120	32111	0.57	1.0E-120	M29428.1	NT	Human P-glycoprotein (MDR1) gene, exons 6 and 7
7471	20144	33236	1.77	1.0E-120	D34619.1	NT	Human TBXAS1 gene for thromboxane synthase, exon 7
7795	20490	33612	6.22	1.0E-120	Y00097.1	NT	Human gene for neurofilament subunit M (NF-M)

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Single Exon Probes Expressed in Brain

Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
7795	20490	33613	5.22	1.0E-120	Y00087.1	NT	Human gene for neurofilament subunit M (NF-M)
8230	20924	34083	2.43	1.0E-120	BF337599.1	EST_HUMAN	602035352F1 NCI_CGAP_Bm64 Homo sapiens cDNA clone IMAGE:4183333 5'
8303	20997	34135	0.85	1.0E-120	AB033057.1	NT	Homo sapiens mRNA for KIAA1231 protein, partial cds
8303	20997	34136	0.85	1.0E-120	AB033057.1	NT	Homo sapiens mRNA for KIAA1231 protein, partial cds
8307	21001	34138	2.33	1.0E-120	AB007984.1	NT	Homo sapiens mRNA, chromosome 1 specific transcript KIAA0495
8307	21001	34139	2.33	1.0E-120	AB007984.1	NT	Homo sapiens mRNA, chromosome 1 specific transcript KIAA0495
8352	21045	34182	1.17	1.0E-120	AB007934.1	NT	Homo sapiens mRNA for KIAA0465 protein, partial cds
9401	22063	35233	5.26	1.0E-120	BE392102.1	EST_HUMAN	601307739F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3625644 5'
9401	22063	35234	5.26	1.0E-120	BE392102.1	EST_HUMAN	601307739F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3625644 5'
9645	22287	35492	3.75	1.0E-120	BF306541.1	EST_HUMAN	601888956F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:4122876 5'
9660	22312	35510	8.25	1.0E-120	AU133205.1	EST_HUMAN	AU133205 NT2RP4 Homo sapiens cDNA clone NT2RP4001541 5'
9677	22329	35525	0.79	1.0E-120	AL049801.1	NT	Novel human gene mapping to chromosome 13, similar to rat RhoGAP
9792	22443		0.54	1.0E-120	AI904151.1	EST_HUMAN	CM-BT043-080298-075 BT043 Homo sapiens cDNA
9976	22824	35837	2.55	1.0E-120	AB029000.1	NT	Homo sapiens mRNA for KIAA1077 protein, partial cds
11071	23741	37015	3.72	1.0E-120	BE286387.1	EST_HUMAN	601176727F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:3832015 5'
11316	24007	37311	2.08	1.0E-120	BE867819.1	EST_HUMAN	601443135F1 NIH_MGC_65 Homo sapiens cDNA clone IMAGE:3847281 5'
11316	24007	37312	2.06	1.0E-120	BE867819.1	EST_HUMAN	601443135F1 NIH_MGC_65 Homo sapiens cDNA clone IMAGE:3847281 5'
11650	24247	37567	1.38	1.0E-120	U94774.1	NT	Human muscle glycogen phosphorylase (PYGM) gene, 5'UTR and exon 1
71	12898	25534	1.08	1.0E-121	Y18000.1	NT	Homo sapiens NF2 gene
369	13165	25808	0.83	1.0E-121	AU134963.1	EST_HUMAN	AU134963 PLACE1 Homo sapiens cDNA clone PLACE1000899 5'
707	15549	26130	1.31	1.0E-121	5032192	NT	Homo sapiens TNF receptor-associated factor 1 (TRAF1) mRNA
1568	14315	27001	2.81	1.0E-121	AB011153.1	NT	Homo sapiens mRNA for KIAA0581 protein, partial cds
1958	14694	27407	1.33	1.0E-121	4755139	NT	Homo sapiens inositol polyphosphate 4-phosphatase, type I, 107kD (INPP4A), splice variant a, mRNA
1958	14694	27408	1.33	1.0E-121	4755139	NT	Homo sapiens inositol polyphosphate 4-phosphatase, type I, 107kD (INPP4A), splice variant a, mRNA
1964	14700	27415	1.18	1.0E-121	M95968.1	NT	Human prothormone converting enzyme (NEC2) gene, exon 9
1964	14700	27416	1.18	1.0E-121	M95968.1	NT	Human prothormone converting enzyme (NEC2) gene, exon 9
2095	14826	27559	1.51	1.0E-121	L76631.1	NT	Homo sapiens metabotropic glutamate receptor 1 beta (mGluR1beta) mRNA, complete cds
3079	15844	28486	3.51	1.0E-121	Y19208.1	NT	Homo sapiens hrb3 gene for hair keratin, exons 1 to 9
3079	15844	28487	3.51	1.0E-121	Y19208.1	NT	Homo sapiens hrb3 gene for hair keratin, exons 1 to 9
3525	16281	28936	1.19	1.0E-121	AB037758.1	NT	Homo sapiens mRNA for KIAA1337 protein, partial cds
3525	16281	28937	1.19	1.0E-121	AB037758.1	NT	Homo sapiens mRNA for KIAA1337 protein, partial cds
3668	16419	29060	7.35	1.0E-121	AF155156.2	NT	Homo sapiens adaptor-related protein complex AP-4 epsilon subunit mRNA, complete cds

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Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
4296	17035	29663	2	1.0E-121	A1263294.1	EST_HUMAN	qx57601.x1 NCI_CGAP_Pan1 Homo sapiens cDNA clone IMAGE:2005417 3'
4919	17847	30259	3.24	1.0E-121	X91837.1	NT	H. sapiens ECE-1 gene (exon 17)
5186	17894	30510	0.97	1.0E-121	BE222250.1	EST_HUMAN	hu09708.x1 NCI_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3166119 3'
5474	18273	31167	0.85	1.0E-121	BE271424.1	EST_HUMAN	601140485F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3049820 5'
6524	19290	32294	0.91	1.0E-121	M91463.1	NT	Human glucose transporter (GLUT4) gene, complete cds
6788	19532		0.88	1.0E-121	AJ271736.1	NT	Homo sapiens Xq pseudautosomal region, segment 2/2
6868	17943	30537	1.78	1.0E-121	AW898086.1	EST_HUMAN	RC3-NN0086-270400-011-402 NN0086 Homo sapiens cDNA
6868	17943	30538	1.78	1.0E-121	AW898086.1	EST_HUMAN	RC3-NN0086-270400-011-402 NN0086 Homo sapiens cDNA
7838	20533	33660	2.11	1.0E-121	11438217	NT	Homo sapiens gamma-aminobutyric acid (GABA) A receptor, alpha 2 (GABRA2), mRNA
7842	20537	33664	2.45	1.0E-121	D84122.1	NT	Homo sapiens DNA for prolactin synthase, exon 8
7842	20537	33665	2.45	1.0E-121	D84122.1	NT	Homo sapiens DNA for prolactin synthase, exon 8
9756	22409	35615	1.21	1.0E-121	AW583858.1	EST_HUMAN	la05g05.y1 Human Pancreatic Islets Homo sapiens cDNA 5' similar to TR:075457 075457 CYTOSOLIC PHOSPHOLIPASE A2-GAMMA. ;
9758	22409	35616	1.21	1.0E-121	AW583858.1	EST_HUMAN	la05g05.y1 Human Pancreatic Islets Homo sapiens cDNA 5' similar to TR:075457 075457 CYTOSOLIC PHOSPHOLIPASE A2-GAMMA. ;
10875	23366	36609	2.95	1.0E-121	11427788	NT	Homo sapiens COX11 (yeast) homolog, cytochrome c oxidase assembly protein (COX11), mRNA
10883	23374	36616	1.28	1.0E-121	AF064200.1	NT	Homo sapiens UDP-glucuronosyltransferase 2B4 precursor (UGT2B4) mRNA, UGT2B4*E458 allele, complete cds
10889	23569	36820	3.46	1.0E-121	7330334	NT	Homo sapiens chloride intracellular channel 4 like (CLIC4L), mRNA
10917	23597	36844	2.53	1.0E-121	N59824.1	EST_HUMAN	y74c01.s1 Scores fetal liver spleen 1NFSL Homo sapiens cDNA clone IMAGE:248448 3'
11309	23988	37269	2.83	1.0E-121	AU119320.1	EST_HUMAN	AU119320 HEMBA1 Homo sapiens cDNA clone HEMBA1005536 5'
281	13069	25707	2.28	1.0E-122	11528176	NT	Homo sapiens T-cell lymphoma invasion and metastasis 1 (TIAM1), mRNA
327	13128	25763	2.63	1.0E-122	AF114483.1	NT	Homo sapiens Intersectin short isoform (ITSN) mRNA, complete cds
348	13147	25787	2.14	1.0E-122	11528176	NT	Homo sapiens T-cell lymphoma invasion and metastasis 1 (TIAM1), mRNA
862	13631	26302	3.99	1.0E-122	AF114483.1	NT	Homo sapiens Intersectin short isoform (ITSN) mRNA, complete cds
1188	13950	26614	4.29	1.0E-122	M20707.1	NT	Human kappa-immunoglobulin germline pseudogene (Chr22.4) variable region (subgroup V kappa II)
1688	14432	27126	1.28	1.0E-122	AF167706.1	NT	Homo sapiens cysteine-rich repeat-containing protein S62 precursor, mRNA, complete cds
1707	14450	27150	1.35	1.0E-122	11418424	NT	Homo sapiens collagen, type XII, alpha 1 (COL12A1), mRNA
1707	14450	27151	1.35	1.0E-122	11418424	NT	Homo sapiens collagen, type XII, alpha 1 (COL12A1), mRNA
1807	14547	27262	4.54	1.0E-122	BE060624.1	EST_HUMAN	601497032F1 NIH_MGC_70 Homo sapiens cDNA clone IMAGE:3890358 5'
2495	15212	27954	5.21	1.0E-122	BF316170.1	EST_HUMAN	601896173F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:4126234 5'
2495	15212	27955	5.21	1.0E-122	BF316170.1	EST_HUMAN	601896173F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:4126234 5'

Table 4
Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
2844	15612	28260	1.41	1.0E-122	AF284717.1	NT	Homo sapiens FYVE domain-containing dual specificity protein phosphatase FYVE-DSP2 mRNA, complete cds
4795	17526	30148	5.04	1.0E-122	4502168	NT	Homo sapiens amyloid beta (A4) precursor protein (protease nexin-II, Alzheimer disease) (APP), mRNA
4930	17658		1.46	1.0E-122	AW504645.1	EST_HUMAN	UI-HF-BNO-ali-a-03-0-UL17 NIH_MGC_50 Homo sapiens cDNA clone IMAGE:3079948 5'
5478	18275	31170	1.36	1.0E-122	BE256039.1	EST_HUMAN	601113567F1 NIH_MGC_16 Homo sapiens cDNA clone IMAGE:3354232 5'
6658	18275	31170	7.1	1.0E-122	BE256039.1	EST_HUMAN	601113567F1 NIH_MGC_16 Homo sapiens cDNA clone IMAGE:3354232 5'
7113	19801	32865	0.73	1.0E-122	AA886671.1	EST_HUMAN	ak49h06.s1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:14068339 3'
8695	21387	34530	0.85	1.0E-122	AJ276801.1	NT	Homo sapiens mRNA for doublesex and mab-3 related transcription factor 1 (DMRT1)
8926	21617	34761	1.21	1.0E-122	11424216	NT	Homo sapiens lethal giant larvae (Drosophila) homolog 2 (LLGL2), mRNA
9223	21902	35073	1.19	1.0E-122	AJ359618.1	EST_HUMAN	q32h07.x1 NCI_CGAP_Brn23 Homo sapiens cDNA clone IMAGE:2013757 3' similar to SW:MTA1_HUMAN Q13330 METASTASIS-ASSOCIATED PROTEIN MTA1.
9223	21902	35074	1.19	1.0E-122	AJ359618.1	EST_HUMAN	q32h07.x1 NCI_CGAP_Brn23 Homo sapiens cDNA clone IMAGE:2013757 3' similar to SW:MTA1_HUMAN Q13330 METASTASIS-ASSOCIATED PROTEIN MTA1.
10034	22682	35899	1.05	1.0E-122	AL117234.1	NT	Novel human gene mapping to chromosome X, isoform of dbi (proto-oncogene)
10908	23588	36834	2.17	1.0E-122	AW958834.1	EST_HUMAN	EST367904 IMAGE resequencing, MAGD Homo sapiens cDNA
11358	24046	37349	1.88	1.0E-122	AB024068.1	NT	Homo sapiens gene for B120, exon 10
11958	24509		6.6	1.0E-122	11418187	NT	Homo sapiens phosphomannomutase 1 (PMM1), mRNA
751	13523	26181	1.74	1.0E-123	BF345274.1	EST_HUMAN	602018058F1 NCI_CGAP_Brn67 Homo sapiens cDNA clone IMAGE:4153670 5'
751	13523	26182	1.74	1.0E-123	BF345274.1	EST_HUMAN	602018058F1 NCI_CGAP_Brn67 Homo sapiens cDNA clone IMAGE:4153670 5'
992	13754	26415	5.4	1.0E-123	AL163249.2	NT	Homo sapiens chromosome 21 segment HS21C049
1001	13761	26422	2.5	1.0E-123	5803114	NT	Homo sapiens inner membrane protein, mitochondrial (mitofilin) (IMMT), mRNA
1218	13966	26634	5.58	1.0E-123	4505818	NT	Homo sapiens phosphatidylinositol-4-phosphate 5-kinase, type II, beta (PIP5K2B) mRNA, and translated products
1218	13966	26635	5.58	1.0E-123	4505818	NT	Homo sapiens phosphatidylinositol-4-phosphate 5-kinase, type II, beta (PIP5K2B) mRNA, and translated products
1438	14185	26871	0.91	1.0E-123	AJ388641.1	NT	Homo sapiens partial mRNA for immunoglobulin kappa chain variable region (IGVK gene), sample GN02
2092	14823	27555	2.7	1.0E-123	M55419.1	NT	Human amelogenin (AMELY) gene, 3' end of cds
2092	14823	27556	2.7	1.0E-123	M55419.1	NT	Human amelogenin (AMELY) gene, 3' end of cds
2092	14823	27557	2.7	1.0E-123	M55419.1	NT	Human amelogenin (AMELY) gene, 3' end of cds
2313	15038		3.62	1.0E-123	7705982	NT	Homo sapiens RAB9-like protein (LOC51209), mRNA
3245	18007	28657	0.95	1.0E-123	6912617	NT	Homo sapiens glutamyl-peptide cyclotransferase (glutamyl cyclase) (QPCT), mRNA
5361	18163	30847	1.98	1.0E-123	L34219.1	NT	Homo sapiens retinaldehyde-binding protein (RALBP) gene, complete cds

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Single Exon Probes Expressed in Brain

Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descripbr
5361	18163	30848	1.56	1.0E-123	L34219.1	NT	Homo sapiens retinaldehyde-binding protein (CRALBP) gene, complete cds
5484	18283	31181	1.62	1.0E-123	BE799746.1	EST_HUMAN	601591108F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3945433 5'
6377	19146	32145	2.59	1.0E-123	AU118435.1	EST_HUMAN	AU118435 HEMBA1 Homo sapiens cDNA clone HEMBA1003591 5'
6805	19643	32688	1.2	1.0E-123	H53198.1	EST_HUMAN	y984q03.r1 Soares fetal liver spleen 1NLS Homo sapiens cDNA clone IMAGE:202444 5' similar to SP-YAK1_YEAST P14690 PROTEIN KINASE YAK1;
6915	19652	32698	1.25	1.0E-123	U42224.1	NT	Human growth hormone releasing hormone gene, exon 7
7084	19783	32849	2.87	1.0E-123	U56258.1	NT	Human hBRAVO/Nr-CAM precursor (hBRAVO/Nr-CAM) gene, complete cds
7302	19985	33061	1.62	1.0E-123	11525833	NT	Homo sapiens heparan sulfate (glucosamine) 3-O-sulfotransferase 2 (HSST2), mRNA
7542	20212	33312	1.3	1.0E-123	11436439	NT	Homo sapiens 2'-5'-oligoadenylate synthetase 2 (OAS2), mRNA
7551	20221	33324	2.18	1.0E-123	BE263001.1	EST_HUMAN	601152815F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:3509182 5'
7816	20511	33636	0.67	1.0E-123	AU131881.1	EST_HUMAN	AU131881 NT2RP3 Homo sapiens cDNA clone NT2RP3003409 5'
7816	20511	33637	0.67	1.0E-123	AU131881.1	EST_HUMAN	AU131881 NT2RP3 Homo sapiens cDNA clone NT2RP3003409 5'
8433	21126		1.13	1.0E-123	AW371924.1	EST_HUMAN	RC4-BT0311-251198-012-a07 BT0311 Homo sapiens cDNA
9269	22023	35193	2.43	1.0E-123	AB007923.1	NT	Homo sapiens mRNA for KIAA0454 protein, partial cds
9405	22087	35239	15.48	1.0E-123	U09823.1	NT	Oryctolagus cuniculus New Zealand white elongation factor 1 alpha (Rabelfla2) mRNA, complete cds
11720	24314	37637	4.66	1.0E-123	BF677292.1	EST_HUMAN	602036791F1 NIH_MGC_83 Homo sapiens cDNA clone IMAGE:4250879 5'
11720	24314	37638	4.66	1.0E-123	BF677292.1	EST_HUMAN	602036791F1 NIH_MGC_83 Homo sapiens cDNA clone IMAGE:4250879 5'
262	13070	25708	2.19	1.0E-124	4507500	NT	Homo sapiens T-cell lymphoma invasion and metastasis 1 (TIAM1) mRNA
262	13070	25709	2.19	1.0E-124	4507500	NT	Homo sapiens T-cell lymphoma invasion and metastasis 1 (TIAM1) mRNA
268	13076		2.99	1.0E-124	D87675.1	NT	Homo sapiens DNA for amyloid precursor protein, complete cds
473	13259	25898	2.84	1.0E-124	AL163246.2	NT	Homo sapiens chromosome 21 segment HS21C046
675	13450	26092	2.68	1.0E-124	AA397551.1	EST_HUMAN	z81b04.r1 Stragene schizo brain S11 Homo sapiens cDNA clone IMAGE:728719 5' similar to TR:G300482
675	13450	26093	2.68	1.0E-124	AA397551.1	EST_HUMAN	G300482 POL-REVERSE TRANSCRIPTASE HOMOLOG (RETROVIRAL ELEMENT);
742	13515	26174	7.84	1.0E-124	AF155694.1	EST_HUMAN	z81b04.r1 Stragene schizo brain S11 Homo sapiens cDNA clone IMAGE:728719 5' similar to TR:G300482
790	13662	26223	1.81	1.0E-124	4507500	NT	Human putative ribosomal protein S1 mRNA
884	13653	26321	1.94	1.0E-124	7705446	NT	Homo sapiens T-cell lymphoma invasion and metastasis 1 (TIAM1) mRNA
1325	14074	26747	4.95	1.0E-124	AF274892.1	NT	Homo sapiens hypothetical protein (HSPC068), mRNA
1325	14074	26748	4.95	1.0E-124	AF274892.1	NT	Homo sapiens glucose transporter 3 gene, exons 9, 10, and complete cds
1808	14548	27263	2.29	1.0E-124	AJ131712.1	NT	Homo sapiens glucose transporter 3 gene, exons 9, 10, and complete cds
2054	14786	27512	3.05	1.0E-124	BE879524.1	EST_HUMAN	Homo sapiens mRNA for nucleolar RNA-helicase (nclH61 gene)
3358	16118	28774	0.85	1.0E-124	4504116	NT	601491715F1 NIH_MGC_89 Homo sapiens cDNA clone IMAGE:3893954 5'
							Homo sapiens glutamate receptor, ionotropic, kainate 1 (GRIK1) mRNA

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
3482	16239	28895	1.25	1.0E-124	S78684.1	NT	Homo sapiens ATP-sensitive inwardly rectifying K-channel subunit (KCNJ6/BIR1) gene, exon
3482	16239	28896	1.25	1.0E-124	S78684.1	NT	Homo sapiens ATP-sensitive inwardly rectifying K-channel subunit (KCNJ6/BIR1) gene, exon
3640	16393	29033	1.54	1.0E-124	X13794.1	NT	H. sapiens lactate dehydrogenase B gene exon 1 and 2 (EC 1.1.1.27) (end joined CDS)
3880	16630	29289	1	1.0E-124	4507500	NT	Homo sapiens T-cell lymphoma invasion and metastasis 1 (TIAM1) mRNA
4056	16801	29432	1.34	1.0E-124	4504116	NT	Homo sapiens glutamate receptor, ionotropic, kainate 1 (GRIK1) mRNA
4696	17430	30061	1.94	1.0E-124	AB024069.1	NT	Homo sapiens gene for B120, exon 11
4881	17608		1.13	1.0E-124	M18178.1	NT	Human fibronectin gene extra type III repeat (EDII), exon x+1
5215	18023	30647	12.12	1.0E-124	8922337	NT	Homo sapiens hypothetical protein FLJ10300 (FLJ10300), mRNA
5586	18383	31283	0.92	1.0E-124	4506786	NT	Homo sapiens IQ motif containing GTPase activating protein 1 (IQGAP1) mRNA
5797	18598	31514	6.94	1.0E-124	BF698135.1	EST_HUMAN	602124644F1 NIH_MGC_56 Homo sapiens cDNA clone IMAGE:4281635 5'
6077	18556	31823	0.91	1.0E-124	AV711263.1	EST_HUMAN	AV711263 Gu Homo sapiens cDNA clone CUAADF07 5'
6339	19109	32098	0.98	1.0E-124		NT	
6912	19649	32695	2.95	1.0E-124	Y11717.1	NT	Homo sapiens ubiquitin specific protease 9, X chromosome (Drosophila fat facets related) (USP9X), mRNA
7037	19729	32786	0.94	1.0E-124	BE271295.1	EST_HUMAN	M.musculus mRNA for hoxa3 gene
7037	19729	32787	0.94	1.0E-124	BE271295.1	EST_HUMAN	600943771F1 NIH_MGC_8 Homo sapiens cDNA clone IMAGE:2866585 5'
7452	20128	33220	0.92	1.0E-124	AA630331.1	EST_HUMAN	ac08h05.s1 Stratagene HeLa cell c3 937216 Homo sapiens cDNA clone IMAGE:2866586 5'
8158	20850	33982	8.07	1.0E-124	4506654	NT	Homo sapiens ribosomal protein L5 (RPL5) mRNA
8362	21055	34195	1.26	1.0E-124	AW612106.1	EST_HUMAN	hg94e09 x1 NCI_CGAP_Kid11 Homo sapiens cDNA clone IMAGE:2953240 3' similar to TR:O65162
8382	21055	34196	1.26	1.0E-124	AW612106.1	EST_HUMAN	O65162 PEROXISOMAL SHORT-CHAIN ALCOHOL DEHYDROGENASE. ;
9060	21749	34907	0.61	1.0E-124	AI799864.1	EST_HUMAN	hg94e09 x1 NCI_CGAP_Kid11 Homo sapiens cDNA clone IMAGE:2953240 3' similar to TR:O65162
9060	21749	34908	0.61	1.0E-124	AI799864.1	EST_HUMAN	O65162 PEROXISOMAL SHORT-CHAIN ALCOHOL DEHYDROGENASE. ;
9390	22052	35223	2.31	1.0E-124	AV645633.1	EST_HUMAN	wc43g03.x1 NCI_CGAP_P128 Homo sapiens cDNA clone IMAGE:2321428 3'
9390	22052	35224	2.31	1.0E-124	AV645633.1	EST_HUMAN	wc43g03.x1 NCI_CGAP_P128 Homo sapiens cDNA clone IMAGE:2321428 3'
9477	22130	35309	0.52	1.0E-124	AF022655.1	NT	AV645633 GLC Homo sapiens cDNA clone GLCAE04 3'
9477	22130	35310	0.52	1.0E-124	AF022655.1	NT	AV645633 GLC Homo sapiens cDNA clone GLCAE04 3'
9508	22161	35342	7.57	1.0E-124	AI767133.1	EST_HUMAN	Homo sapiens cep250 centrosome associated protein mRNA, complete cds
9508	22161	35343	7.57	1.0E-124	AI767133.1	EST_HUMAN	Homo sapiens cep250 centrosome associated protein mRNA, complete cds
9771	22422	35630	1.57	1.0E-124	AW503755.1	EST_HUMAN	w63f02.x1 NCI_CGAP_Kid12 Homo sapiens cDNA clone IMAGE:2400891 3'
10804	23487		1.44	1.0E-124	11432087	NT	w63f02.x1 NCI_CGAP_Kid12 Homo sapiens cDNA clone IMAGE:2400891 3'
10976	23652	36905	1.61	1.0E-124	UB4778.1	EST_HUMAN	UI-HF-BNO-akz-b-04-Q.U1.r1 NIH_MGC_50 Homo sapiens cDNA clone IMAGE:3078946 5'
11305	23964	37265	3.51	1.0E-124	AW665663.1	EST_HUMAN	Homo sapiens leucine-rich, glioma inactivated 1 (LGI1), mRNA
						EST_HUMAN	Human muscle glycogen phosphorylase (PYGM) gene, exons 6 through 17
						EST_HUMAN	h05600.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2980906 3'

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Table 4
Single Exon Probes Expressed in Brain

Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
11452	23219	36452	3	1.0E-124	AI448455.1	EST_HUMAN	l119e03.x1 NCL_CGAP_Gas4 Homo sapiens cDNA clone IMAGE:2141980 3' similar to TR:O31662 O31662 YKRS PROTEIN.
11452	23219	36453	3	1.0E-124	AI448455.1	EST_HUMAN	l119e03.x1 NCL_CGAP_Gas4 Homo sapiens cDNA clone IMAGE:2141980 3' similar to TR:O31662 O31662 YKRS PROTEIN.
12028	13450	26092	4.1	1.0E-124	AA397551.1	EST_HUMAN	z181b04.r1 Stralagene schizo brain S11 Homo sapiens cDNA clone IMAGE:728719 5' similar to TR:G300482 G300482 POL=REVERSE TRANSCRIPTASE HOMOLOG (RETROVIRAL ELEMENT)
12028	13450	26093	4.1	1.0E-124	AA397551.1	EST_HUMAN	z181b04.r1 Stralagene schizo brain S11 Homo sapiens cDNA clone IMAGE:728719 5' similar to TR:G300482 G300482 POL=REVERSE TRANSCRIPTASE HOMOLOG (RETROVIRAL ELEMENT)
12454	24823	31028	1.61	1.0E-124	AB029016.1	EST_HUMAN	Homo sapiens mRNA for KIAA1093 protein, partial cds
12706	25279	30729	1.44	1.0E-124	11417862	NT	Homo sapiens calcineurin binding protein 1 (KIAA0330), mRNA
12706	25279	30730	1.44	1.0E-124	11417862	NT	Homo sapiens calcineurin binding protein 1 (KIAA0330), mRNA
146	12961	25603	1.74	1.0E-125	BE219510.1	EST_HUMAN	h159a08.x1 NCL_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3177686 3' similar to TR:Q25058 Q25058 FIBROPELIN IA
146	12961	25604	1.74	1.0E-125	BE219510.1	EST_HUMAN	h159a08.x1 NCL_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3177686 3' similar to TR:Q25058 Q25058 FIBROPELIN IA
311	13115		5.49	1.0E-125	AB032998.1	NT	Homo sapiens mRNA for KIAA1172 protein, partial cds
417	12828	25441	5.47	1.0E-125	BE743922.1	EST_HUMAN	G01577981F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3826885 5'
629	13408	26043	1.18	1.0E-125	AI110656.1	EST_HUMAN	HA0086 Human fetal liver cDNA library Homo sapiens cDNA
629	13408	26044	1.18	1.0E-125	AI110656.1	EST_HUMAN	HA0086 Human fetal liver cDNA library Homo sapiens cDNA
711	13485	26134	1.56	1.0E-125	AF264750.1	NT	Homo sapiens ALR-like protein mRNA, partial cds
840	13610	26280	2.29	1.0E-125	AA042813.1	EST_HUMAN	z153c07.s1 Soares_pregnant uterus_NbHPU Homo sapiens cDNA clone IMAGE:486540 3' similar to gb:X65857_cds1 OLFATORY RECEPTOR-LIKE PROTEIN HGMP07E (HUMAN);
978	13743	26405	1.22	1.0E-125	AL163210.2	NT	Homo sapiens chromosome 21 segment HS21C010
1137	13887	26545	1.76	1.0E-125	7662279	NT	Homo sapiens KIAA00744 gene product; histone deacetylase 7 (KIAA00744), mRNA
1688	15575	27105	0.99	1.0E-125	7661867	NT	Homo sapiens KIAA00222 gene product (KIAA00222), mRNA
1793	14533	27242	0.91	1.0E-125	U78027.1	NT	Homo sapiens Bruton's tyrosine kinase (BTK), alpha-D-galactosidase A (GLA), L44-like ribosomal protein (L44L) and FTP3 (FTP3) genes, complete cds
1804	14544	27256	1.59	1.0E-125	AF015450.1	NT	Homo sapiens Usurpin-alpha mRNA, complete cds
1804	14544	27259	1.59	1.0E-125	AF015450.1	NT	Homo sapiens Usurpin-alpha mRNA, complete cds
2398	15080	27816	1.68	1.0E-125	AA011278.1	EST_HUMAN	z101g09.r1 Soares_fetal_liver_spleen_INF1.S_S1 Homo sapiens cDNA clone IMAGE:428568 5'
2508	15225	27967	0.99	1.0E-125	AA042813.1	EST_HUMAN	z153c07.s1 Soares_pregnant uterus_NbHPU Homo sapiens cDNA clone IMAGE:486540 3' similar to gb:X65857_cds1 OLFATORY RECEPTOR-LIKE PROTEIN HGMP07E (HUMAN);
2604	15317	28057	1.3	1.0E-125	4504696	NT	Homo sapiens inhibin, alpha (INH) mRNA
2604	15317	28058	1.3	1.0E-125	4504696	NT	Homo sapiens inhibin, alpha (INH) mRNA

Table 4

Single Exon Probes Expressed In Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
3009	17874	28425	0.94	1.0E-125	BE018009.1	EST_HUMAN	bb74f06.v1 NIH_MGC_12 Homo sapiens cDNA clone IMAGE:3048131 5' similar to TR:O95604 Q95604
3839	16590	29228	0.92	1.0E-125	AA042813.1	EST_HUMAN	ZINC FINGER PROTEIN.;
4513	17248	29883	2.09	1.0E-125	11425114	NT	z453c07.s1 Soares_pregnant_uterus_NhlhPU Homo sapiens cDNA clone IMAGE:486540 3' similar to gb:X65857_cds1 OLFACTORY RECEPTOR-LIKE PROTEIN HGMPO7E (HUMAN);
4513	17248	29884	2.09	1.0E-125	11425114	NT	Homo sapiens zinc finger protein ZNF287 (ZNF287), mRNA
4974	12981	25603	1.48	1.0E-125	BE219510.1	EST_HUMAN	Homo sapiens zinc finger protein ZNF287 (ZNF287), mRNA
4974	12981	25604	1.48	1.0E-125	BE219510.1	EST_HUMAN	h459a08.x1 NCI_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3177686 3' similar to TR:Q25058 Q25058
5783	18574	31503	3.16	1.0E-125	11439448	NT	FIBROPEL LIN IA;
5802	18592	31517	0.91	1.0E-125	BE175169.1	EST_HUMAN	h459a08.x1 NCI_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3177686 3' similar to TR:Q25058 Q25058
5842	18630	31565	3.76	1.0E-125	BE892650.1	EST_HUMAN	FIBROPEL LIN IA;
5884	18670	31811	0.74	1.0E-125	AI679904.1	EST_HUMAN	h459a08.x1 NCI_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3177686 3' similar to TR:Q25058 Q25058
6188	18965	31938	0.8	1.0E-125	BE736055.1	EST_HUMAN	FIBROPEL LIN IA;
6486	19253	32253	1.63	1.0E-125	BE562526.1	EST_HUMAN	Homo sapiens KIAA0985 protein (KIAA0985), mRNA
6486	19253	32254	1.53	1.0E-125	BE562526.1	EST_HUMAN	QV2-HT0577-010500-165-b06 HT0577 Homo sapiens cDNA
6961	19443	32459	5.26	1.0E-125	X03427.1	NT	QV2-HT0577-010500-165-b06 HT0577 Homo sapiens cDNA
6961	19443	32460	5.26	1.0E-125	X03427.1	NT	601433472F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3918552 5'
7706	20370	33483	0.55	1.0E-125	BE515100.1	EST_HUMAN	601433472F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3918552 5'
8444	21136	34273	0.99	1.0E-125	U90288.1	NT	h457c07.x1 NCI_CGAP_Gas4 Homo sapiens cDNA clone IMAGE:2256108 3' similar to WP:C45G9.2
8444	21136	34274	0.99	1.0E-125	U90288.1	NT	CE01854;
9016	21708	34856	6.83	1.0E-125	BE181640.1	EST_HUMAN	601305670F1 NIH_MGC_39 Homo sapiens cDNA clone IMAGE:3940097 5'
9016	21708	34857	6.83	1.0E-125	BE181640.1	EST_HUMAN	601305670F1 NIH_MGC_39 Homo sapiens cDNA clone IMAGE:3940097 5'
9281	22035	35207	0.96	1.0E-125	AI665996.1	EST_HUMAN	601335828F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3889790 5'
10350	22997	36215	0.53	1.0E-125	BE794578.1	EST_HUMAN	601335828F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3889790 5'
10391	23037	36253	1.06	1.0E-125	AB002298.1	NT	Homo sapiens IGF-II gene, exon 5
10591	23276	36514	3.23	1.0E-125	AF043458.1	NT	Homo sapiens IGF-II gene, exon 5
10758	23443	36888	1.61	1.0E-125	11425570	NT	Homo sapiens IGF-II gene, exon 5
11081	23751	37026	3.94	1.0E-125	AB014587.1	NT	Homo sapiens IGF-II gene, exon 5
							Homo sapiens ryanodine receptor 1 (skeletal) (RYR1), mRNA
							Homo sapiens mRNA for KIAA0667 protein, partial cds

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Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
11259	23921	37213	1.74	1.0E-125	7669505	NT	Homo sapiens myosin, heavy polypeptide 1, skeletal muscle, adult (MYH1), mRNA
11265	23927	37218	4.84	1.0E-125	AF026029.1	NT	Homo sapiens poly(A) binding protein II (PABP2) gene, complete cds
11377	23984	37284	1.92	1.0E-125	AW812899.1	EST_HUMAN	RC3-ST0186-250200-018-c11 ST0186 Homo sapiens cDNA
11486	24087	37397	3.58	1.0E-125	BE074267.1	EST_HUMAN	QV3-BT0568-020200-075-g09 BT0568 Homo sapiens cDNA
11486	24087	37398	3.58	1.0E-125	BE074267.1	EST_HUMAN	QV3-BT0568-020200-075-g09 BT0568 Homo sapiens cDNA
757	13529	26189	1.46	1.0E-126	4759007	NT	Homo sapiens CDC-like kinase (CLK) mRNA
899	13687	26331	1.45	1.0E-126	X68735.1	NT	H. sapiens gene for alphas-antichymotrypsin, exon 3
2344	15067	27804	1.17	1.0E-126	8923056	NT	Homo sapiens hypothetical protein FLJ20048 (FLJ20048), mRNA
2344	15067	27805	1.17	1.0E-126	8923056	NT	Homo sapiens hypothetical protein FLJ20048 (FLJ20048), mRNA
2605	15318	28059	1.48	1.0E-126	6382078	NT	Homo sapiens RAN binding protein 2 (RANBP2), mRNA
3069	15835		0.72	1.0E-126	4804116	NT	Homo sapiens glutamate receptor, ionotropic, kainate 1 (GRIK1) mRNA
3070	15835	28479	7.54	1.0E-126	AA160709.1	EST_HUMAN	z672c03.11 Stralagene pancreas (#937208) Homo sapiens cDNA clone IMAGE:592420 5'
3070	15836	28480	7.54	1.0E-126	AA160709.1	EST_HUMAN	z672c03.11 Stralagene pancreas (#937208) Homo sapiens cDNA clone IMAGE:592420 5'
3620	16373	29014	1.09	1.0E-126	X53941.1	NT	H. sapiens DNA for liver cytochrome b5 pseudogene
3647	16400	29040	1.6	1.0E-126	7657038	NT	Homo sapiens death receptor 6 (DR6), mRNA
4783	17515	30137	1.74	1.0E-126	N34078.1	EST_HUMAN	yk78c06.11 Soares melanocyte 2NblHM Homo sapiens cDNA clone IMAGE:267850 5'
5078	17797	30413	0.81	1.0E-126	BE743922.1	EST_HUMAN	601577981F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3926685 5'
5516	18412	31325	0.68	1.0E-126	T66988.1	EST_HUMAN	y652b12.s1 Soares fetal liver spleen 1NfLS Homo sapiens cDNA clone IMAGE:66527 3'
							z666e03.11 Soares fetal_fetus Nb2Hf8_9w Homo sapiens cDNA clone IMAGE:796444 5' similar to
6139	18917	31887	3.22	1.0E-126	AA460075.1	EST_HUMAN	TR.G1145880 G1145880 TITIN ;
6197	18973	31949	4.2	1.0E-126	AB040958.1	NT	Homo sapiens mRNA for KIAA1525 protein, partial cds
6197	18973	31950	4.2	1.0E-126	AB040958.1	NT	Homo sapiens mRNA for KIAA1525 protein, partial cds
7399	20077	33157	1.02	1.0E-126	AF257737.1	NT	Homo sapiens ciliary dynein heavy chain 9 (DNAH9) mRNA, complete cds
7399	20077	33158	1.02	1.0E-126	AF257737.1	NT	Homo sapiens ciliary dynein heavy chain 9 (DNAH9) mRNA, complete cds
7802	20268	33375	0.62	1.0E-126	AU136463.1	EST_HUMAN	AU136463 PLAGE1 Homo sapiens cDNA clone PLAGE1004325 5'
							wf08f01.x1 Soares NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2350009 3' similar to
7855	20319	33428	0.69	1.0E-126	A1806483.1	EST_HUMAN	SW:MPP2_HUMAN Q14168 MAGUK_P55 SUBFAMILY MEMBER 2 ;
7778	20473	33596	0.76	1.0E-126	AB037715.1	NT	Homo sapiens mRNA for KIAA1294 protein, partial cds
7778	20473	33597	0.76	1.0E-126	AB037715.1	NT	Homo sapiens mRNA for KIAA1294 protein, partial cds
7887	20582	33711	2.55	1.0E-126	X16609.1	NT	Human mRNA for ankyrin (variant 2.1)
							ne74b12.s1 NCI CGAP_Ew1 Homo sapiens cDNA clone IMAGE:909983 similar to SW:TSG6_HUMAN
8083	20777	33907	0.99	1.0E-126	AA483368.1	EST_HUMAN	P98066 TUMOR NECROSIS FACTOR-INDUCIBLE PROTEIN TSG-6 PRECURSOR ;
9695	22346	35539	0.87	1.0E-126	4506424	NT	Homo sapiens neuro-oncological ventral antigen 1 (NOVA1), splice variant 1, mRNA

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Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
10693	23384	36624	1.27	1.0E-126	M93196.1	NT	Human macrophage mannose receptor (MRC1) gene, exon 5
10768	23450	36692	2.38	1.0E-126	BF883175.1	EST_HUMAN	602139138F1 NIH_MGC_46 Homo sapiens cDNA clone IMAGE:4298240 5'
11501	24102	37414	5.47	1.0E-126	BE261660.1	EST_HUMAN	601149404F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:3502129 5'
12490	17797	30413	7.17	1.0E-126	BE743922.1	EST_HUMAN	601577981F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3926685 5'
163	12982	25622	4.63	1.0E-127	AB024597.1	NT	Homo sapiens mRNA for casein kinase I epsilon, complete cds
169	12982	25623	4.63	1.0E-127	AB024597.1	NT	Homo sapiens mRNA for casein kinase I epsilon, complete cds
189	12982	25622	4.71	1.0E-127	AB024597.1	NT	Homo sapiens mRNA for casein kinase I epsilon, complete cds
189	12982	25623	4.71	1.0E-127	AB024597.1	NT	Homo sapiens mRNA for casein kinase I epsilon, complete cds
267	13075	25716	3.54	1.0E-127	D87875.1	NT	Homo sapiens DNA for amyloid precursor protein, complete cds
267	13075	25717	3.54	1.0E-127	D87875.1	NT	Homo sapiens DNA for amyloid precursor protein, complete cds
861	13630	26301	2.03	1.0E-127	AF114488.1	NT	Homo sapiens intersectin short isoform (ITSN) mRNA, complete cds
866	13684	26330	1.37	1.0E-127	U72621.2	NT	Homo sapiens intersectin short isoform (ITSN) mRNA, complete cds
1686	14430	27126	1.08	1.0E-127	4827053	NT	Homo sapiens best on transformation LOT1 mRNA, complete cds
2058	14790	27515	2.44	1.0E-127	5803065	NT	Homo sapiens leukocyte immunoglobulin-like receptor, subfamily A (with TM domain), member 1 (LILRA1), mRNA
2058	14790	27516	2.44	1.0E-127	5803065	NT	Homo sapiens leukocyte immunoglobulin-like receptor, subfamily A (with TM domain), member 1 (LILRA1), mRNA
2197	14926	27661	6.02	1.0E-127	4506620	NT	Homo sapiens ribosomal protein L28 (RPL28) mRNA
2341	15064	27801	2.73	1.0E-127	AF245505.1	NT	Homo sapiens adiccan mRNA, complete cds
2814	15325	28068	3.04	1.0E-127	X12881.1	NT	Human mRNA for cyokeratin 18
2626	15338	28081	1.1	1.0E-127	AA450131.1	EST_HUMAN	zx42a02.r1 Scores_total_fetus_Nb2HF8_9w Homo sapiens cDNA clone IMAGE:789098 5'
2626	15338	28082	1.1	1.0E-127	AA450131.1	EST_HUMAN	zx42a02.r1 Scores_total_fetus_Nb2HF8_9w Homo sapiens cDNA clone IMAGE:789098 5'
3791	16543	29178	1.21	1.0E-127	AW161297.1	EST_HUMAN	TR:Q15170 Q15170 TRANSCRIPTION FACTOR S-IL-RELATED PROTEIN ; contains element MER22 repetitive element ;
4096	16838	29465	0.7	1.0E-127	AF135188.1	NT	Homo sapiens delayed rectifier potassium channel subunit isK mRNA, complete cds
4227	16968	29592	23.74	1.0E-127	7706239	NT	Homo sapiens neuroblastoma-amplified protein (LOC51594), mRNA
4227	16968	29593	23.74	1.0E-127	7706239	NT	Homo sapiens neuroblastoma-amplified protein (LOC51594), mRNA
4462	17198	29824	0.94	1.0E-127	AF252297.1	NT	Homo sapiens cytochrome P450 reductase metabolizing protein P450RAI-2 mRNA, complete cds
4584	17299	29926	4.35	1.0E-127	4505384	NT	Homo sapiens RAD1 (S. pombe) homolog (RAD1) mRNA, and translated products
4590	17325		1.92	1.0E-127	AL163268.2	NT	Homo sapiens chromosome 21 segment HS21C068
4826	17360	29993	1.26	1.0E-127	6912639	NT	Homo sapiens Ring1 and YY1 binding protein (RYBP), mRNA

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
5620	18416	31329	1.37	1.0E-127	W03547.1	EST_HUMAN	za01a10.r1 Soares melanocyte 2NHM Homo sapiens cDNA clone IMAGE:291258 5' similar to SW:PIPO6_RAT P10688 1-PHOSPHATIDYLINOSITOL-4,5-BISPHOSPHATE PHOSPHODIESTERASE DELTA 1;
5650	18445	31359	2.4	1.0E-127	4828863	NT	Homo sapiens neuronal cell adhesion molecule (NRCAM) mRNA
5713	18506	31428	4.25	1.0E-127	X85784.1	NT	H. sapiens NOS2 gene, exon 8
6070	18849	31813	2.17	1.0E-127	X84060.1	NT	H. sapiens TCF11 gene, exon 3-8
6229	19003	31979	5.28	1.0E-127	4504778	NT	Homo sapiens integrin, beta 8 (ITGB8) mRNA
6560	19325	32332	0.89	1.0E-127	11421595	NT	Homo sapiens immunoglobulin superfamily, member 3 (IGSF3), mRNA
6992	19444	32481	0.81	1.0E-127	4826977	NT	Homo sapiens reelin (RELN) mRNA
7684	20348	33481	1.65	1.0E-127	11421914	NT	Homo sapiens Pendred syndrome (PDS), mRNA
7684	20348	33482	1.65	1.0E-127	11421914	NT	Homo sapiens Pendred syndrome (PDS), mRNA
7691	20365	33470	0.84	1.0E-127	AW996292.1	EST_HUMAN	QV3-BND046-150300-121-h11 BND046 Homo sapiens cDNA
8785	21477	34625	0.8	1.0E-127	11427235	NT	Homo sapiens Chediak-Higashi syndrome 1 (CHS1), mRNA
8785	21477	34626	0.8	1.0E-127	11427235	NT	Homo sapiens Chediak-Higashi syndrome 1 (CHS1), mRNA
9540	22193	35377	4.17	1.0E-127	AF274863.1	NT	Homo sapiens secretory pathway component Sec31B-1 mRNA, alternatively spliced, complete cds
9540	22193	35378	4.17	1.0E-127	AF274863.1	NT	Homo sapiens secretory pathway component Sec31B-1 mRNA, alternatively spliced, complete cds
9773	22424	35631	1	1.0E-127	AI298832.1	EST_HUMAN	gm94h09.x1 NCL CGAP_Lu5 Homo sapiens cDNA clone IMAGE:1896449 3'
10241	22889	36101	1.34	1.0E-127	11427235	NT	Homo sapiens Chediak-Higashi syndrome 1 (CHS1), mRNA
11107	23777	37050	7.88	1.0E-127	11417339	NT	Homo sapiens similar to heat shock 70kD protein 9B (mortalin-2) (H. sapiens) (LOC63184), mRNA
11627	24224	37546	3.25	1.0E-127	BE895415.1	EST_HUMAN	Homo sapiens similar to heat shock 70kD protein 9B (mortalin-2) (H. sapiens) (LOC63184), mRNA
11627	24224	37547	3.25	1.0E-127	BE895415.1	EST_HUMAN	Homo sapiens similar to heat shock 70kD protein 9B (mortalin-2) (H. sapiens) (LOC63184), mRNA
12244	12982	25622	2.25	1.0E-127	AB024597.1	NT	601434784F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3919917 5'
12244	12982	25623	2.25	1.0E-127	AB024597.1	NT	Homo sapiens mRNA for casein kinase I epsilon, complete cds
12444	14814	31048	2.88	1.0E-127	AB011399.1	NT	Homo sapiens mRNA for casein kinase I epsilon, complete cds
447	13233	25873	3.04	1.0E-128	BE385617.1	EST_HUMAN	Homo sapiens gene for AF-6, complete cds
2063	14795	27520	5.5	1.0E-128	U02523.1	NT	601278127F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:3618922 5'
2063	14795	27521	5.5	1.0E-128	U02523.1	NT	Human FAU1P pseudogene, trinucleotide repeat regions
2206	14934	27672	8.78	1.0E-128	4506718	NT	Human FAU1P pseudogene, trinucleotide repeat regions
2446	15185		1.1	1.0E-128	11437455	NT	Homo sapiens ribosomal protein S2 (RPS2) mRNA
3389	16148	28802	1.08	1.0E-128	AB033073.1	NT	Homo sapiens chromatin-specific transcription elongation factor, 140 kDa subunit (FACTP140), mRNA

Table 4

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
4616	17351	29888	6.14	1.0E-128	11426673	NT	Homo sapiens prospero-related homeobox 1 (PROX1), mRNA
5458	18257	31147	0.7	1.0E-128	X69539.1	NT	H sapiens gene for inter-alpha-trypsin inhibitor heavy chain H1, exon 12
5868	18672	31613	0.65	1.0E-128	BE747981.1	EST_HUMAN	601580466F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3929057 5'
5868	18672	31614	0.65	1.0E-128	BE747981.1	EST_HUMAN	601580466F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3929057 5'
6324	19094	32082	2.58	1.0E-128	11420966	NT	Homo sapiens phosphodiesterase 1C, calmodulin-dependent (70kD) (PDE1C), mRNA
6831	19493	32518	6.9	1.0E-128	BF224345.1	EST_HUMAN	7q86b10.x1 NCI_CGAP_Lu24 Homo sapiens cDNA clone IMAGE: 3'
7327	20010	33089	0.82	1.0E-128	BE614105.1	EST_HUMAN	601503846F1 NIH_MGC_71 Homo sapiens cDNA clone IMAGE:3905794 5'
7692	20358	33471	0.67	1.0E-128	11545923	NT	Homo sapiens putative ABC transporter (WHITE2), mRNA
8446	21138	34276	0.73	1.0E-128	AB007923.1	NT	Homo sapiens mRNA for KIAA0454 protein, partial cds
8446	21138	34277	0.73	1.0E-128	AB007923.1	NT	Homo sapiens mRNA for KIAA0454 protein, partial cds
10037	22885	35903	1.63	1.0E-128	AA639198.1	EST_HUMAN	ns04a11.1 NCI_CGAP_Ew1 Homo sapiens cDNA clone IMAGE:1182620 similar to TR:G951338 G951338
10508	23302	36541	3.52	1.0E-128	11425284	NT	CHROMOSOME SEGREGATION GENE HOMOLOG CAS.1
10618	23311	36550	3.21	1.0E-128	AA928959.1	EST_HUMAN	Homo sapiens glutamate receptor, ionotropic, N-methyl D-aspartate 2D (GRIN2D), mRNA
10699	23390	36828	1.35	1.0E-128	AJ262090.1	NT	om88h08.s1 NCI_CGAP_GC4 Homo sapiens cDNA clone IMAGE:1552383 3' similar to gb:X54941 CYCLIN-
10761	23445	36889	1.4	1.0E-128	BE384475.1	EST_HUMAN	DEPENDENT KINASES REGULATORY SUBUNIT 1 (HUMAN);
12117	24810	702	7.02	1.0E-128	AW956290.1	EST_HUMAN	Homo sapiens mRNA for TRABID protein (TRABID gene)
118	13189	25639	1.33	1.0E-129	S37722.1	NT	EST367360 MAGE resequences, MAGC Homo sapiens cDNA
404	13189	25839	1.19	1.0E-129	S37722.1	NT	insulin-like growth factor binding protein-2 [human, placenta, Genomic, 1019 nt, segment 2 of 4]
1713	14456	27154	2.73	1.0E-129	AL096880.1	NT	insulin-like growth factor binding protein-2 [human, placenta, Genomic, 1019 nt, segment 2 of 4]
1717	14460	27158	1.57	1.0E-129	AF240786.1	NT	Novel human mRNA containing Zinc finger C2H2 type domains
1717	14460	27158	1.57	1.0E-129	AF240786.1	NT	Homo sapiens glutathione S-transferase theta 1 (GSTT1) and glutathione S-transferase theta 1 (GSTT1) genes, complete cds
1838	14578	27288	2.78	1.0E-129	11418522	NT	Homo sapiens glutathione S-transferase theta 2 (GSTT2) and glutathione S-transferase theta 1 (GSTT1) genes, complete cds
3125	15890	28531	1.21	1.0E-129	Q14585	SWISSPROT	Homo sapiens zinc finger protein 76 (expressed in testis) (ZNF76), mRNA
3125	15890	28532	1.21	1.0E-129	Q14585	SWISSPROT	ZINC FINGER PROTEIN HZF10
3125	15890	28533	1.21	1.0E-129	Q14585	SWISSPROT	ZINC FINGER PROTEIN HZF10
4143	16885	29516	1.94	1.0E-129	AB040892.1	NT	ZINC FINGER PROTEIN HZF10
4247	16988	29611	2.26	1.0E-129	AW755254.1	EST_HUMAN	Homo sapiens mRNA for KIAA1459 protein, partial cds
4247	16988	29612	2.26	1.0E-129	AW755254.1	EST_HUMAN	CMYA5 Human cardiac muscle expression library Homo sapiens cDNA clone 4151935 similar to CMYA5
4247	16988	29612	2.26	1.0E-129	AW755254.1	EST_HUMAN	Cardiomyopathy associated gene 5
4247	16988	29612	2.26	1.0E-129	AW755254.1	EST_HUMAN	CMYA5 Human cardiac muscle expression library Homo sapiens cDNA clone 4151935 similar to CMYA5
4247	16988	29612	2.26	1.0E-129	AW755254.1	EST_HUMAN	Cardiomyopathy associated gene 5

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
6000	18781	31742	3.73	1.0E-129	AJ006345.1	NT	Homo sapiens KVLQT1 gene
6816	19477	32498	0.56	1.0E-129	BE869993.1	EST_HUMAN	601449740F1 NIH_MGC_65 Homo sapiens cDNA clone IMAGE:3853688 5'
6816	19477	32500	0.56	1.0E-129	BE869993.1	EST_HUMAN	601449740F1 NIH_MGC_65 Homo sapiens cDNA clone IMAGE:3853688 5'
7027	19719	32778	4.15	1.0E-129	AJ006345.1	NT	Homo sapiens KVLQT1 gene
7090	19778	32844	3.93	1.0E-129	11420850	NT	Homo sapiens similar to ribosomal protein S26 (H. sapiens) (LOC63894), mRNA
7428	20105	33181	2.49	1.0E-129	AF041056.1	NT	Homo sapiens WSCR4 gene, exons 3 and 4
7428	20105	33192	2.49	1.0E-129	AF041056.1	NT	Homo sapiens WSCR4 gene, exons 3 and 4
8217	20911	35835	3.94	1.0E-129	AB014534.1	NT	Homo sapiens mRNA for KIAA0634 protein, partial cds
9979	22627	35835	0.97	1.0E-129	11437282	NT	Homo sapiens solute carrier family 21 (organic anion transporter), member 9 (SLC21A9), mRNA
9979	22627	35836	0.97	1.0E-129	11437282	NT	Homo sapiens solute carrier family 21 (organic anion transporter), member 9 (SLC21A9), mRNA
10523	23169	36396	0.57	1.0E-129	AA882200.1	EST_HUMAN	601449740F1 NIH_MGC_65 Homo sapiens cDNA clone IMAGE:1020288 3'
11186	23851	37137	4	1.0E-129	AA825526.1	EST_HUMAN	601449740F1 NIH_MGC_65 Homo sapiens cDNA clone IMAGE:1047589 5'
11269	19779	32844	6.57	1.0E-129	11420850	NT	Homo sapiens similar to ribosomal protein S26 (H. sapiens) (LOC63894), mRNA
11615	24213	37537	1.38	1.0E-129	AU143115.1	EST_HUMAN	AU143115 Y79AA1 Homo sapiens cDNA clone Y79AA1001410 5'
11615	24213	37538	1.38	1.0E-129	AU143115.1	EST_HUMAN	AU143115 Y79AA1 Homo sapiens cDNA clone Y79AA1001410 5'
12104	24601		1.79	1.0E-129	H83155.1	EST_HUMAN	yq49c05.r1 Scores fetal liver spleen 1NFSL Homo sapiens cDNA clone IMAGE:199112 5' similar to SP-B48150 B48150 HP-25-HIBERNATION-RELATED PROTEIN - TAMIAS ASIATICUS=ASIAN ;
12483	24842		2.66	1.0E-128	AL120739.1	EST_HUMAN	DKFZp762K171_r1 762 (synonym: hmal2) Homo sapiens cDNA clone DKFZp762K171 5'
74	12901	25538	1.3	1.0E-130	7705530	NT	Homo sapiens hypothetical protein (HSPC242), mRNA
1147	13902	26564	0.69	1.0E-130	AB037835.1	NT	Homo sapiens mRNA for KIAA1414 protein, partial cds
1661	14407	27098	11.38	1.0E-130	BE275192.1	EST_HUMAN	601121995F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:3346366 5'
1661	14407	27099	11.38	1.0E-130	BE275192.1	EST_HUMAN	601121995F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:3346366 5'
1976	14712		3.08	1.0E-130	X04092.1	NT	Human gene for catalase (EC 1.1.1.6) exon 9 mapping to chromosome 11, band p13
2773	15478		5.37	1.0E-130	AJ010230.1	NT	Homo sapiens RET finger protein-like 1 antisense transcript, partial
2881	15648	28290	1.17	1.0E-130	BE564219.1	EST_HUMAN	601343016F1 NIH_MGC_53 Homo sapiens cDNA clone IMAGE:3685466 5'
2881	15648	28291	1.17	1.0E-130	BE564219.1	EST_HUMAN	601343016F1 NIH_MGC_53 Homo sapiens cDNA clone IMAGE:3685466 5'
3565	16320	28668	1.09	1.0E-130	AF240698.1	NT	Homo sapiens retinol dehydrogenase homodog isoform-1 (RDH) mRNA, complete cds
3750	15648	28290	5.36	1.0E-130	BE564219.1	EST_HUMAN	601343016F1 NIH_MGC_53 Homo sapiens cDNA clone IMAGE:3685466 5'
3750	15648	28291	5.36	1.0E-130	BE564219.1	EST_HUMAN	601343016F1 NIH_MGC_53 Homo sapiens cDNA clone IMAGE:3685466 5'
3915	16665	28305	1.92	1.0E-130	AW503580.1	EST_HUMAN	UHF-BN0-aky-g-06-Q-J1_r1 NIH_MGC_50 Homo sapiens cDNA clone IMAGE:3078731 5'
4053	16798	28428	1.5	1.0E-130	M97710.1	NT	Human T-cell receptor (V alpha 22.1, J alpha 22.1, J alpha 22.1) mRNA
4501	17237	29659	6.76	1.0E-130	AW843993.1	EST_HUMAN	CM4-CN0045-180200-511-f02 CN0045 Homo sapiens cDNA
5038	17757	30371	1.07	1.0E-130	AW363299.1	EST_HUMAN	RCO-CT0318-201199-031-a11 CT0318 Homo sapiens cDNA
5038	17757	30372	1.07	1.0E-130	AW363299.1	EST_HUMAN	RCO-CT0318-201199-031-a11 CT0318 Homo sapiens cDNA

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Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
6629	19391	32405	0.55	1.0E-130	X57825.1	NT	Human germ-line immunoglobulin lambda light chain pseudogene (VII.1)
6723	19557	32567	0.81	1.0E-130	AW843875.1	EST_HUMAN	CMO-CN0045-170200-225-g03 CN0045 Homo sapiens cDNA
6723	19557	32588	0.81	1.0E-130	AW843875.1	EST_HUMAN	CMO-CN0045-170200-225-g03 CN0045 Homo sapiens cDNA
6736	19570	32602	0.75	1.0E-130	11425448	NT	Homo sapiens estrogen-responsive B box protein (EBBP), mRNA
7154	19841	32910	2.62	1.0E-130	11416777	NT	Homo sapiens solute carrier family 6 (neurotransmitter transporter, L-proline), member 7 (SLC6A7), mRNA
8582	21274		0.45	1.0E-130	AF008551.1	NT	Homo sapiens aurora-related kinase 1 (ARK1) mRNA, complete cds
8718	21410	34553	2.39	1.0E-130	AW956242.1	EST_HUMAN	EST388312 MAGC resequences, MAGD Homo sapiens cDNA
9114	21802	34967	1.94	1.0E-130	AB037766.1	NT	Homo sapiens mRNA for KIAA1335 protein, partial cds
9833	22484		1.25	1.0E-130	AW103454.1	EST_HUMAN	xd38a06.x1 NCI_CGAP_Ov23 Homo sapiens cDNA clone IMAGE:2595874 3'
10463	23109	36340	0.51	1.0E-130	11432889	NT	Homo sapiens contactin 6 (CNTN6), mRNA
10463	23109	36341	0.51	1.0E-130	11432889	NT	Homo sapiens contactin 6 (CNTN6), mRNA
11242	23904	37194	1.72	1.0E-130	8923197	NT	Homo sapiens hypothetical protein FLJ20208 (FLJ20208), mRNA
11242	23904	37195	1.72	1.0E-130	8923197	NT	Homo sapiens hypothetical protein FLJ20208 (FLJ20208), mRNA
11703	24298	37624	2.67	1.0E-130	4504142	NT	Homo sapiens glutamate receptor, metabotropic 5 (GRM5) mRNA
12789	15478		1.56	1.0E-130	AJ010230.1	NT	Homo sapiens RET finger protein-like 1 antisense transcript, partial
4	12832	25445	1.9	0.0E+00	AA228126.1	EST_HUMAN	z58c04.1 Soares_NhHMPu_S1 Homo sapiens cDNA clone IMAGE:667590 5' similar to TR:G222811
4	12832	25446	1.9	0.0E+00	AA228126.1	EST_HUMAN	G222811 ALPHA 1 CHAIN OF TYPE XII COLLAGEN ;
7	12834	25449	1.02	0.0E+00	4885136	NT	Homo sapiens checkpoint suppressor 1 (CHES1), mRNA
14	12841	25454	0.72	0.0E+00	8923349	NT	Homo sapiens hypothetical protein FLJ20371 (FLJ20371), mRNA
14	12841	25455	0.72	0.0E+00	8923349	NT	Homo sapiens hypothetical protein FLJ20371 (FLJ20371), mRNA
20	12848	25462	6.7	0.0E+00	D83327.1	NT	Homo sapiens DCRR1 mRNA, partial cds
20	12848	25463	6.7	0.0E+00	D83327.1	NT	Homo sapiens DCRR1 mRNA, partial cds
25	12853	25468	17.04	0.0E+00	AF141349.1	NT	Homo sapiens beta-tubulin mRNA, complete cds
33	12861	25478	1.19	0.0E+00	5802897	NT	Homo sapiens Cdc42 effector protein 2 (CEP2), mRNA
35	12863	25481	0.82	0.0E+00	M58600.1	NT	Human heparin cofactor II (HCF2) gene, exons 1 through 5
39	12867	25486	4.22	0.0E+00	6857825	NT	Homo sapiens RNA-binding protein S1, serine-rich domain (RNPS1), mRNA
55	12884	25512	0.76	0.0E+00	Y17151.2	NT	Homo sapiens mRNA for multidrug resistance protein 3 (ABCC3)
55	12884	25513	0.76	0.0E+00	Y17151.2	NT	Homo sapiens mRNA for multidrug resistance protein 3 (ABCC3)
56	12885	25514	3.04	0.0E+00	D78804.1	EST_HUMAN	HUM516H08B Human placenta polyA+ (TFujwara) Homo sapiens cDNA clone GEN-516H08 5'
56	12885	25515	3.04	0.0E+00	D78804.1	EST_HUMAN	HUM516H08B Human placenta polyA+ (TFujwara) Homo sapiens cDNA clone GEN-516H08 5'
57	12886	25516	5.76	0.0E+00	L16598.1	NT	Human ribosomal protein L7 (RPL7) mRNA, complete cds

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
59	12888	25519	12.55	0.0E+00	AW069534.1	EST_HUMAN	cr48e07.x1 Jla bone marrow stroma Homo sapiens cDNA clone HBMSC cr48e07 3'
59	12888	25520	12.55	0.0E+00	AW069534.1	EST_HUMAN	cr48e07.x1 Jla bone marrow stroma Homo sapiens cDNA clone HBMSC cr48e07 3'
63	12891	25524	1.5	0.0E+00	M60676.1	NT	Human von Willebrand factor pseudogene corresponding to exons 23 through 34
65	12893		0.91	0.0E+00	M60676.1	NT	Human von Willebrand factor pseudogene corresponding to exons 23 through 34
73	12900	25536	10.36	0.0E+00	4758977	NT	Homo sapiens protein tyrosine phosphatase, non-receptor type substrate 1 (PTPNS1) mRNA
73	12900	25537	10.36	0.0E+00	4758977	NT	Homo sapiens protein tyrosine phosphatase, non-receptor type substrate 1 (PTPNS1) mRNA
76	12900	25536	10.18	0.0E+00	4758977	NT	Homo sapiens protein tyrosine phosphatase, non-receptor type substrate 1 (PTPNS1) mRNA
76	12900	25537	10.18	0.0E+00	4758977	NT	Homo sapiens protein tyrosine phosphatase, non-receptor type substrate 1 (PTPNS1) mRNA
80	12906	25544	0.78	0.0E+00	4501850	NT	Homo sapiens amiloride binding protein 1 (amlins oxidase (copper-containing)) (ABP1), nuclear gene
81	12907		15.25	0.0E+00	4504444	NT	encoding mitochondrial protein, mRNA
90	12916	25553	17.68	0.0E+00	5016088	NT	Homo sapiens actin, beta (ACTB) mRNA
93	12919	25556	23.26	0.0E+00	U69277.1	NT	Human polyomeric 1 homolog (HPH1) mRNA
99	12925	25562	3.51	0.0E+00	A114743.1	EST_HUMAN	HA1347 Human fetal liver cDNA library Homo sapiens cDNA
100	12926	25563	1.72	0.0E+00	AB037784.1	NT	Homo sapiens mRNA for KIAA1363 protein, partial cds
105	12928	25566	1.33	0.0E+00	X91213.1	NT	H. sapiens ncr1 gene (exon 2)
113	12935	25572	0.89	0.0E+00	AI623701.1	EST_HUMAN	ts38b05.x1 NCI CGAP U14 Homo sapiens cDNA clone IMAGE:2230833 3' similar to TR:Q99551 Q99551
114	12935	25572					MITOCHONDRIAL TRANSCRIPTION TERMINATION FACTOR PRECURSOR.
115	15513	25573	1.47	0.0E+00	AI623701.1	EST_HUMAN	ts38b05.x1 NCI CGAP U14 Homo sapiens cDNA clone IMAGE:2230833 3' similar to TR:Q99551 Q99551
115	15513	25573	1.48	0.0E+00	N36040.1	EST_HUMAN	MITOCHONDRIAL TRANSCRIPTION TERMINATION FACTOR PRECURSOR.
128	12943	25574	1.48	0.0E+00	N36040.1	EST_HUMAN	Yy01h09.r1 Soares melanocyte 2NBM Homo sapiens cDNA clone IMAGE:270017 5'
128	12943	25586	4.38	0.0E+00	4505938	NT	Yy01h09.r1 Soares melanocyte 2NBM Homo sapiens cDNA clone IMAGE:270017 5'
128	12943	25587	4.38	0.0E+00	4505938	NT	Homo sapiens polymerase (RNA) II (DNA directed) polypeptide A (220KD) (POLR2A) mRNA
136	12950	25593	1.29	0.0E+00	T56945.1	EST_HUMAN	Homo sapiens polymerase (RNA) II (DNA directed) polypeptide A (220KD) (POLR2A) mRNA
136	12950	25594	1.29	0.0E+00	T56945.1	EST_HUMAN	Yy01h09.r1 Soares melanocyte 2NBM Homo sapiens cDNA clone IMAGE:270017 5'
149	12964		8.88	0.0E+00	4504444	NT	Yy01h09.r1 Soares melanocyte 2NBM Homo sapiens cDNA clone IMAGE:270017 5'
153	12968	25609	2.1	0.0E+00	BF036881.1	EST_HUMAN	Homo sapiens heterogeneous nuclear ribonucleoprotein A1 (HNRPA1) mRNA
155	12970		25.83	0.0E+00	4504444	NT	Homo sapiens heterogeneous nuclear ribonucleoprotein A1 (HNRPA1) mRNA
156	12973	25612	1	0.0E+00	AF111168.2	NT	Homo sapiens heterogeneous nuclear ribonucleoprotein A1 (HNRPA1) mRNA
160	12975	25613	1.15	0.0E+00	BE205973.1	EST_HUMAN	Homo sapiens serine palmitoyl transferase, subunit II gene, complete cds; and unknown genes
161	12975	25613	0.88	0.0E+00	BE205973.1	EST_HUMAN	601174270F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:3529864 5'
162	12976	25614	5.4	0.0E+00	W73973.1	EST_HUMAN	601174270F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:3529864 5'
							zcd62b05.r1 Soares fetal heart NbhH19W Homo sapiens cDNA clone IMAGE:345201 5' similar to gb:X16282_cds1 ZINC FINGER PROTEIN CLONE 647 (HUMAN);

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
163	12977	25615	0.81	0.0E+00	BE162832.1	EST_HUMAN	QV3-HT0457-140200-088-d04 HT0457 Homo sapiens cDNA
163	12977	25616	0.81	0.0E+00	BE162832.1	EST_HUMAN	QV3-HT0457-140200-088-d04 HT0457 Homo sapiens cDNA
164	12978	25617	1.42	0.0E+00	AF244088.1	NT	Homo sapiens zinc finger protein mRNA, complete cds
167	12981	25620	29.73	0.0E+00	AL163202.2	NT	Homo sapiens chromosome 21 segment HS21C002
167	12981	25621	29.73	0.0E+00	AL163202.2	NT	Homo sapiens chromosome 21 segment HS21C002
176	12988	25627	5.95	0.0E+00	BE018970.1	EST_HUMAN	bb24e12.y1 NIH_MGC_14 Homo sapiens cDNA clone IMAGE:2963854 5' similar to WP.Y57A10A.Z
176	12988	25628	5.95	0.0E+00	BE018970.1	EST_HUMAN	bb24e12.y1 NIH_MGC_14 Homo sapiens cDNA clone IMAGE:2963854 5' similar to WP.Y57A10A.Z
181	12993	25631	3.05	0.0E+00	AB018327.1	NT	Homo sapiens mRNA for KIAA0784 protein, partial cds
181	12993	25632	3.05	0.0E+00	AB018327.1	NT	Homo sapiens mRNA for KIAA0784 protein, partial cds
189	13002	25643	67.77	0.0E+00	D50659.1	NT	Human gamma-cytoplasmic actin (ACTGPg) pseudogene
194	13007	25648	3.74	0.0E+00	AF273045.1	NT	Homo sapiens CTCL tumor antigen se14-3 mRNA, complete cds
194	13007	25649	3.74	0.0E+00	AF273045.1	NT	Homo sapiens CTCL tumor antigen se14-3 mRNA, complete cds
196	13009	25651	4.81	0.0E+00	AF167174.1	NT	Homo sapiens chromosome X MSL3-2 protein mRNA, complete cds
196	13009	25652	4.81	0.0E+00	AF167174.1	NT	Homo sapiens chromosome X MSL3-2 protein mRNA, complete cds
205	15537	25658	9.26	0.0E+00	AI587308.1	EST_HUMAN	tq04f08.x1 NCI_CGAP_U13 Homo sapiens cDNA clone IMAGE:2207847 3' similar to gb.J03191 PROFILIN1 (HUMAN);
205	15537	25659	9.26	0.0E+00	AI587308.1	EST_HUMAN	tq04f08.x1 NCI_CGAP_U13 Homo sapiens cDNA clone IMAGE:2207847 3' similar to gb.J03191 PROFILIN1 (HUMAN);
207	13019	25661	3.08	0.0E+00	AF195658.1	NT	Homo sapiens DNA mismatch repair protein (MLH3) gene, complete cds
209	13021		23.37	0.0E+00	4506632	NT	Homo sapiens ribosomal protein L31 (RPL31) mRNA
210	13022		4.72	0.0E+00	AF132000.1	NT	Homo sapiens TADA1 protein mRNA, complete cds
214	13026	25664	9.19	0.0E+00	AB018264.1	NT	Homo sapiens mRNA for KIAA0721 protein, partial cds
215	13026	25664	8.34	0.0E+00	AB018264.1	NT	Homo sapiens mRNA for KIAA0721 protein, partial cds
216	13027	25665	3.5	0.0E+00	6678444	NT	Mus musculus testis-specific protein, Y-encoded-like (Tspyl), mRNA
229	13041	25678	1.23	0.0E+00	AB018301.1	NT	Homo sapiens mRNA for KIAA0758 protein, partial cds
228	13041	25679	1.23	0.0E+00	AB018301.1	NT	Homo sapiens mRNA for KIAA0758 protein, partial cds
231	13042	25682	3.97	0.0E+00	5453805	NT	Homo sapiens NS1-associated protein 1 (NSAP1) mRNA
233	13044		6.94	0.0E+00	AL163201.2	NT	Homo sapiens chromosome 21 segment HS21C001
240	13049	25688	3.85	0.0E+00	AF231919.1	NT	Homo sapiens chromosome 21 unknown mRNA
242	13051	25691	1.71	0.0E+00	X89772.1	NT	H.sapiens mRNA for interferon alpha/beta receptor (long form)
250	13059		9.14	0.0E+00	AF231919.1	NT	Homo sapiens chromosome 21 unknown mRNA
263	13071	25710	1.68	0.0E+00	4507500	NT	Homo sapiens T-cell lymphoma invasion and metastasis 1 (TIAM1) mRNA

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Table 4
Single Exon Probes Expressed in Brain

Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
263	13071	25711	1.68	0.0E+00	4507500	NT	Homo sapiens T-cell lymphoma invasion and metastasis 1 (TIAM1) mRNA
265	13073	25713	3.07	0.0E+00	7706028	NT	Homo sapiens hypothetical protein (LOC51250), mRNA
276	13083		1.19	0.0E+00	D83327.1	NT	Homo sapiens DCRR1 mRNA, partial cds
277	13084	25726	3.28	0.0E+00	D83327.1	NT	Homo sapiens DCRR1 mRNA, partial cds
277	13084	25727	3.28	0.0E+00	D83327.1	NT	Homo sapiens DCRR1 mRNA, partial cds
278	13085		0.78	0.0E+00	AW845293.1	EST_HUMAN	IL2-CT0031-181199-020-B03 CT0031 Homo sapiens cDNA
287	13093	25734	6.65	0.0E+00	4557029	NT	Homo sapiens potassium inwardly-rectifying channel, subfamily J, member 15 (KCNJ15) mRNA
287	13093	25735	6.65	0.0E+00	4557029	NT	Homo sapiens potassium inwardly-rectifying channel, subfamily J, member 15 (KCNJ15) mRNA
287	13103	25744	4.97	0.0E+00	AB028942.1	NT	Homo sapiens mRNA for KIAA1019 protein, partial cds
298	13104	25745	4.63	0.0E+00	AB028942.1	NT	Homo sapiens mRNA for KIAA1019 protein, partial cds
299	15540		4.23	0.0E+00	4506728	NT	Homo sapiens ribosomal protein S5 (RPS5) mRNA
300	13105		3.76	0.0E+00	AA480002.1	EST_HUMAN	z18c06.r1 Soares, NIHMPU, S1 Homo sapiens cDNA clone IMAGE:753994 5'
301	13106	25746	18.93	0.0E+00	4507152	NT	Homo sapiens SON DNA binding protein (SON) mRNA
302	13108	25746	16.53	0.0E+00	4507152	NT	Homo sapiens SON DNA binding protein (SON) mRNA
306	13110	25750	2.33	0.0E+00	AF114488.1	NT	Homo sapiens interaectin short isoform (ITSN) mRNA, complete cds
319	13122	25759	4.97	0.0E+00	7657213	NT	Homo sapiens hormonally upregulated neu tumor-associated kinase (HUNK), mRNA
320	13122	25759	6.23	0.0E+00	7657213	NT	Homo sapiens hormonally upregulated neu tumor-associated kinase (HUNK), mRNA
335	13136	25771	2.66	0.0E+00	5174574	NT	Homo sapiens myeloid/lymphoid or mixed-lineage leukemia (trithorax (Drosophila) homolog), translocated to, 4 (MLLT4) mRNA
338	13139	25775	1.71	0.0E+00	4827057	NT	Homo sapiens X-box binding protein 1 (XBP-1) mRNA
341	13142	25780	1.45	0.0E+00	U71600.1	NT	Human zinc finger protein zfp31 (zfp31) mRNA, partial cds
346	13146	25784	2.42	0.0E+00	AF231919.1	NT	Homo sapiens chromosome 21 unknown mRNA
346	13146	25785	2.42	0.0E+00	AF231919.1	NT	Homo sapiens chromosome 21 unknown mRNA
347	15541	25786	3.84	0.0E+00	AF231919.1	NT	Homo sapiens chromosome 21 unknown mRNA
349	13148	25788	2.33	0.0E+00	4507500	NT	Homo sapiens T-cell lymphoma invasion and metastasis 1 (TIAM1) mRNA
352	13151	25792	0.94	0.0E+00	4503854	NT	Homo sapiens GA-binding protein transcription factor, alpha subunit (60kD) (GABPA), mRNA
353	13152	25793	4.1	0.0E+00	D80006.1	NT	Human mRNA for KIAA0184 gene, partial cds
354	13152	25793	1.9	0.0E+00	D80006.1	NT	Human mRNA for KIAA0184 gene, partial cds
356	13154	25795	1.89	0.0E+00	4507500	NT	Homo sapiens T-cell lymphoma invasion and metastasis 1 (TIAM1) mRNA
367	13163	25806	1.07	0.0E+00	AU134963.1	EST_HUMAN	AU134963 PLACE1 Homo sapiens cDNA clone PLACE1000899 5'
378	13203	25849	8.31	0.0E+00	AB028642.1	NT	Homo sapiens mRNA for KIAA1019 protein, partial cds
379	13204	25850	1.54	0.0E+00	A1363014.1	EST_HUMAN	q961h05.x1 NCI CGAP Bm25 Homo sapiens cDNA clone IMAGE:2018457 3' similar to gb.X64199
383	13170	25813	1.83	0.0E+00	AW754180.1	EST_HUMAN	PHOSPHORIBOSYLAMINE-GLYCINE LIGASE (HUMAN); RC2-CT0320-300100-016-a09 CT0320 Homo sapiens cDNA

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
386	13172	25816	1.58	0.0E+00	4503680	NT	Homo sapiens IgG Fc binding protein (FC(GAMMA)BP) mRNA
387	13173	25817	2.49	0.0E+00	4503680	NT	Homo sapiens IgG Fc binding protein (FC(GAMMA)BP) mRNA
387	13173	25818	2.49	0.0E+00	4503680	NT	Homo sapiens IgG Fc binding protein (FC(GAMMA)BP) mRNA
388	13174	25819	1.17	0.0E+00	4503680	NT	Homo sapiens IgG Fc binding protein (FC(GAMMA)BP) mRNA
389	13175	25820	1.39	0.0E+00	4503680	NT	Homo sapiens IgG Fc binding protein (FC(GAMMA)BP) mRNA
389	13175	25821	1.39	0.0E+00	4503680	NT	Homo sapiens IgG Fc binding protein (FC(GAMMA)BP) mRNA
390	13176	25822	2.77	0.0E+00	4503680	NT	Homo sapiens IgG Fc binding protein (FC(GAMMA)BP) mRNA
391	13177	25823	0.84	0.0E+00	4503680	NT	Homo sapiens IgG Fc binding protein (FC(GAMMA)BP) mRNA
392	13178	25824	1.35	0.0E+00	X74870.1	NT	H. sapiens gene for RNA pol II largest subunit, exons 23-29
392	13178	25825	1.35	0.0E+00	X74870.1	NT	H. sapiens gene for RNA pol II largest subunit, exons 23-29
393	13178	25824	1.07	0.0E+00	X74870.1	NT	H. sapiens gene for RNA pol II largest subunit, exons 23-29
393	13178	25825	1.07	0.0E+00	X74870.1	NT	H. sapiens gene for RNA pol II largest subunit, exons 23-29
397	13182		28.13	0.0E+00	4506608	NT	Homo sapiens ribosomal protein L19 (RPL19) mRNA
411	12822	25435	1.5	0.0E+00	R17795.1	EST_HUMAN	yg09a02.1 Soares infant brain 1N1B Homo sapiens cDNA clone IMAGE:31652 5'
419	13205	25851	1.31	0.0E+00	4503914	NT	Homo sapiens phosphoribosylglycinamide formyltransferase, phosphoribosylglycinamide synthetase,
420	13206		3.18	0.0E+00	4506728	NT	phosphoribosylaminimidazole synthetase (GART) mRNA
421	13207	25852	3.93	0.0E+00	AB028942.1	NT	Homo sapiens ribosomal protein S5 (RPS5) mRNA
422	13208	25853	5.45	0.0E+00	4507152	NT	Homo sapiens mRNA for KIAA1019 protein, partial cds
423	13209	25855	4.02	0.0E+00	4507152	NT	Homo sapiens SON DNA binding protein (SON) mRNA
433	13219	25865	1.99	0.0E+00	AF193607.1	NT	Mus musculus truncated SON protein (Son) mRNA, complete cds
438	13224		2.01	0.0E+00	4557879	NT	Homo sapiens interferon gamma receptor 1 (IFNGR1) mRNA
439	13225		0.97	0.0E+00	AA324262.1	EST_HUMAN	EST27054 Carabellum II Homo sapiens cDNA 5' end
455	13241	25879	3.15	0.0E+00	BE264447.1	EST_HUMAN	601111520F1 NIH_MGC_16 Homo sapiens cDNA clone IMAGE:3352348 5'
455	13241	25880	3.15	0.0E+00	4504532	NT	Homo sapiens 5-hydroxytryptamine (serotonin) receptor 1B (HTR1B) mRNA
461	13246	25888	1.23	0.0E+00	4557887	NT	Homo sapiens 5-hydroxytryptamine (serotonin) receptor 1B (HTR1B) mRNA
461	13246	25889	1.23	0.0E+00	4557887	NT	Homo sapiens keratin 18 (KRT18) mRNA
471	13257	25895	2.64	0.0E+00	AL163246.2	NT	Homo sapiens chromosome 21 segment HS21C046
472	13258	25896	9.28	0.0E+00	AL163246.2	NT	Homo sapiens chromosome 21 segment HS21C046
472	13258	25897	9.28	0.0E+00	AL163246.2	NT	Homo sapiens chromosome 21 segment HS21C046
481	13266	25902	3.46	0.0E+00	AB030305.1	NT	Homo sapiens mRNA for KIAA1209 protein, partial cds
483	13268	25904	1.97	0.0E+00	AU132898.1	EST_HUMAN	AU132898 NT2RP4 Homo sapiens cDNA clone NT2RP4000837 5'
491	13276	25910	2.68	0.0E+00	BE385144.1	EST_HUMAN	601274951F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:3615756 5'

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Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
492	15543	25911	1.11	0.0E+00	AW938825.1	EST_HUMAN	PMO-DT0065-130400-002-c06 DT0065 Homo sapiens cDNA
494	13278	25913	1.33	0.0E+00	AL117233.1	NT	Novel human gene mapping to chromosome 1
495	13279	25914	1.27	0.0E+00	8923855	NT	Homo sapiens PC326 protein (PC326), mRNA
499	13283		0.77	0.0E+00	BF373403.1	EST_HUMAN	IL2-FT0159-070800-120-F07 FT0159 Homo sapiens cDNA
508	13290	25924	5.37	0.0E+00	AL163210.2	NT	Homo sapiens chromosome 21 segment HS21C010
513	15544	25928	1.29	0.0E+00	BE081527.1	EST_HUMAN	QV2-BT0635-160400-142-h05 BT0635 Homo sapiens cDNA
518	13302	25934	1.14	0.0E+00	BF028005.1	EST_HUMAN	601764858F1 NIH_MGC_53 Homo sapiens cDNA clone IMAGE:3996998 5'
524	13308	25941	1.88	0.0E+00	AB040909.1	NT	Homo sapiens mRNA for KIAA1476 protein, partial cds
527	13311	25944	27.68	0.0E+00	6006030	NT	Homo sapiens transcription elongation factor B (SII), polypeptide 1-like (TCBE1L) mRNA
528	13312	25945	4.33	0.0E+00	4504036	NT	Homo sapiens guanine nucleotide binding protein (G protein), alpha 11 (Gq class) (GNA11) mRNA
528	13312	25946	4.33	0.0E+00	4504036	NT	Homo sapiens guanine nucleotide binding protein (G protein), alpha 11 (Gq class) (GNA11) mRNA
530	13314	25948	0.97	0.0E+00	8923831	NT	Homo sapiens anillin (LOC54443), mRNA
530	13314	25949	0.97	0.0E+00	8923831	NT	Homo sapiens anillin (LOC54443), mRNA
535	13318		5.82	0.0E+00	AF003528.1	NT	Homo sapiens X-linked anthridermic ectodermal dysplasia protein gene (EDA), exon 2 and flanking repeat regions
543	13326	25958	1.89	0.0E+00	AW135324.1	EST_HUMAN	U1-F-B1-acb-h-04-0-UJ, s1 NC1 CGAP Sub5 Homo sapiens cDNA clone IMAGE:2713951 3'
553	13336		8	0.0E+00	D10083.1	NT	Homo sapiens RGH1 gene, retrovirus-like element
572	13353	25982	2.63	0.0E+00	5174742	NT	Homo sapiens ubiquinol-cytochrome c reductase, Rieske iron-sulfur polypeptide 1 (UQCRCF1), nuclear gene encoding mitochondrial protein, mRNA
585	13365		7	0.0E+00	J04066.1	NT	Human apolipoprotein A-1 (ApoA-1) gene, exon 1
588	13368	25996	1.83	0.0E+00	BF104898.1	EST_HUMAN	60182827F1 NIH_MGC_75 Homo sapiens cDNA clone IMAGE:4045447 5'
590	13370	25998	0.98	0.0E+00	8923631	NT	Homo sapiens hypothetical protein FLJ20701 (FLJ20701), mRNA
590	13370	25999	0.98	0.0E+00	8923631	NT	Homo sapiens hypothetical protein FLJ20701 (FLJ20701), mRNA
595	13373	26002	0.76	0.0E+00	4501854	NT	Homo sapiens acetyl-Coenzyme A carboxylase beta (ACACB), mRNA
600	13378	26008	1.15	0.0E+00	AF221712.1	NT	Homo sapiens Smed- and Olf-interacting zinc finger protein mRNA, partial cds
600	13378	26009	1.15	0.0E+00	AF221712.1	NT	Homo sapiens Smed- and Olf-interacting zinc finger protein mRNA, partial cds
609	13387	26018	3.18	0.0E+00	AF149773.1	NT	Homo sapiens NOD1 protein (NOD1) gene, exons 1, 2, and 3
612	13390	26021	1.2	0.0E+00	6806918	NT	Homo sapiens low density lipoprotein-related protein 2 (LRP2), mRNA
613	13391	26022	3.83	0.0E+00	6806918	NT	Homo sapiens low density lipoprotein-related protein 2 (LRP2), mRNA
613	13391	26023	3.83	0.0E+00	6806918	NT	Homo sapiens low density lipoprotein-related protein 2 (LRP2), mRNA
614	13392	26024	0.92	0.0E+00	6806918	NT	Homo sapiens low density lipoprotein-related protein 2 (LRP2), mRNA
614	13392	26025	0.92	0.0E+00	6806918	NT	Homo sapiens low density lipoprotein-related protein 2 (LRP2), mRNA
620	13399	26034	1.35	0.0E+00	AA399486.1	EST_HUMAN	z680c07.r1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:728732 5'
624	13403	26038	10.1	0.0E+00	D11078.1	NT	Homo sapiens RGH2 gene, retrovirus-like element

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Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
628	13407	26041	0.76	0.0E+00	W78811.1	EST_HUMAN	zh51b04.r1 Soares_fetal_liver_spleen_INFLS_S1 Homo sapiens cDNA clone IMAGE:415567 5' similar to gb/A21187 ALPHA-2-MACROGLOBULIN PRECURSOR (HUMAN);
628	13407	26042	0.76	0.0E+00	W78811.1	EST_HUMAN	zh51b04.r1 Soares_fetal_liver_spleen_INFLS_S1 Homo sapiens cDNA clone IMAGE:415567 5' similar to gb/A21187 ALPHA-2-MACROGLOBULIN PRECURSOR (HUMAN);
631	13410		4.99	0.0E+00	4885526	NT	Homo sapiens novel SH2-containing protein 3 (NSP3) mRNA
638	13417	26054	2.88	0.0E+00	6008003	NT	Homo sapiens glutamate receptor, ionotropic, N-methyl D-aspartate 2B (GRIN2B) mRNA
640	13419	26057	1.17	0.0E+00	5031624	NT	Human neutral amino acid transporter (ASCT1) gene, exon 8
643	13422	26061	2.53	0.0E+00	U05235.1	NT	Homo sapiens sodium/calcium exchanger isoform NaCa3 (NCX1) mRNA, complete cds
647	13426	26064	1.07	0.0E+00	AF108389.1	NT	Homo sapiens sodium/calcium exchanger isoform NaCa3 (NCX1) mRNA, complete cds
647	13426	26065	1.07	0.0E+00	AF108389.1	NT	Homo sapiens sodium/calcium exchanger isoform NaCa3 (NCX1) mRNA, complete cds
653	13431	26070	4.98	0.0E+00	4826947	NT	Homo sapiens protein kinase, X-linked (PRKX) mRNA
653	13431	26071	4.98	0.0E+00	4826947	NT	Homo sapiens protein kinase, X-linked (PRKX) mRNA
659	15547		1.15	0.0E+00	X57147.1	NT	Human endogenous retrovirus pHE.1 (ERV9)
667	13443	26084	10.4	0.0E+00	4504424	NT	Homo sapiens high-mobility group (nonhistone chromosomal) protein 1 (HMG1) mRNA
672	13448	26088	4.49	0.0E+00	AB026012.1	NT	Homo sapiens mRNA for KIAA1089 protein, partial cds
681	13456	26101	2.43	0.0E+00	7657488	NT	Homo sapiens similar to rat integral membrane glycoprotein POM121 (POM121L1), mRNA
693	13468	26115	9.24	0.0E+00	AA614537.1	EST_HUMAN	np4900.1.s1 NCI_CGAP_Br1.1 Homo sapiens cDNA clone IMAGE:1129633 3' similar to gb:X57352 INTERFERON-INDUCIBLE PROTEIN 1-8U (HUMAN);
696	13471	26119	4.34	0.0E+00	M60875.1	NT	Human von Willebrand factor gene, exons 23 through 34
696	13471	26120	4.34	0.0E+00	M60875.1	NT	Human von Willebrand factor gene, exons 23 through 34
708	13481	26129	1.71	0.0E+00	5032192	NT	Homo sapiens TNF receptor-associated factor 1 (TRAF1) mRNA
712	13486	26135	4.95	0.0E+00	AF264750.1	NT	Homo sapiens ALR-like protein mRNA, partial cds
712	13486	26136	4.95	0.0E+00	AF264750.1	NT	Homo sapiens ALR-like protein mRNA, partial cds
714	13488	26139	12.29	0.0E+00	11545800	NT	Homo sapiens hypothetical protein FLJ21634 (FLJ21634), mRNA
719	13493	26146	2.12	0.0E+00	BE241577.1	EST_HUMAN	TCAAP1D0779 Pediatric acute myelogenous leukemia cell (FAB M1) Baylor-HGSC project=TCAA Homo sapiens cDNA clone TCAAP0779
739	13512	26170	1.07	0.0E+00	AF226990.2	NT	Homo sapiens MHC class I antigen (HLA-G) mRNA, HLA-G1 allele, complete cds
739	13512	26171	1.07	0.0E+00	AF226990.2	NT	Homo sapiens MHC class I antigen (HLA-G) mRNA, HLA-G1 allele, complete cds
740	13513	26172	2.41	0.0E+00	AF170492.1	NT	Homo sapiens chloride channel CLC4 (CLC4) mRNA, complete cds
743	13516	26176	1.07	0.0E+00	J03764.1	NT	Human, plasminogen activator inhibitor-1 gene, exons 2 to 9
743	13516	26176	1.07	0.0E+00	J03764.1	NT	Human, plasminogen activator inhibitor-1 gene, exons 2 to 9
746	13519	26177	1.38	0.0E+00	6912749	NT	Homo sapiens zinc finger protein 212 (ZNF212), mRNA
748	15551	26179	1.86	0.0E+00	D30612.1	NT	Homo sapiens mRNA for repressor protein, partial cds
749	13521	26180	3.01	0.0E+00	BE869735.1	EST_HUMAN	601445647.F1 NIH_MGC_65 Homo sapiens cDNA clone IMAGE:3849803 5'

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
752	13524	26183	3.51	0.0E+00	R48915.1	EST_HUMAN	y69g08.r1 Soares breast 2NBH8st Homo sapiens cDNA clone IMAGE:154046 5'
753	13523	26184	2.4	0.0E+00	5032086	NT	Homo sapiens splicing factor 3a, subunit 1, 120kD (SF3A1), mRNA
761	13533	26192	2.07	0.0E+00	AB011399.1	NT	Homo sapiens gene for AF-6, complete cds
764	13537	26196	2.34	0.0E+00	7661965	NT	Homo sapiens KIAA0170 gene product (KIAA0170), mRNA
775	13547	26208	1.18	0.0E+00	D80006.1	NT	Human mRNA for KIAA0184 gene, partial cds
775	13547	26209	1.18	0.0E+00	D80006.1	NT	Human mRNA for KIAA0184 gene, partial cds
780	13552	26213	2.13	0.0E+00	X89772.1	NT	H. sapiens mRNA for interferon alpha/beta receptor (long form)
784	13556	26217	5.97	0.0E+00	AB020717.1	NT	Homo sapiens mRNA for KIAA0910 protein, partial cds
784	13556	26218	5.97	0.0E+00	AB020717.1	NT	Homo sapiens mRNA for KIAA0910 protein, partial cds
788	13560	26222	9.88	0.0E+00	5174478	NT	Homo sapiens pericentrin (PCNT) mRNA
789	13561		11.63	0.0E+00	4507500	NT	Homo sapiens T-cell lymphoma invasion and metastasis 1 (TIAM1) mRNA
805	13577	26242	1.86	0.0E+00	7657213	NT	Homo sapiens hormonally upregulated neu tumor-associated kinase (HUNK), mRNA
806	13578	26243	4.28	0.0E+00	7657213	NT	Homo sapiens hormonally upregulated neu tumor-associated kinase (HUNK), mRNA
808	13580	26245	2.81	0.0E+00	4557686	NT	Homo sapiens serine-threonine protein kinase (MNBH) mRNA, complete cds
814	13585	26251	1.39	0.0E+00	AF108830.1	NT	Homo sapiens serine-threonine protein kinase (MNBH) mRNA, complete cds
814	13585	26252	1.39	0.0E+00	AF108830.1	NT	Homo sapiens serine-threonine protein kinase (MNBH) mRNA, complete cds
819	13590	26257	1.58	0.0E+00	4503854	NT	Homo sapiens GA-binding protein transcription factor, alpha subunit (GABPA), mRNA
823	13593	26262	2.09	0.0E+00	4507500	NT	Homo sapiens T-cell lymphoma invasion and metastasis 1 (TIAM1) mRNA
823	13593	26263	2.09	0.0E+00	4507500	NT	Homo sapiens T-cell lymphoma invasion and metastasis 1 (TIAM1) mRNA
830	13600		1.32	0.0E+00	AF027153.1	NT	Homo sapiens sodium/myo-histal cotransporter (SLC5A3) gene, complete cds
834	13604	26274	4.62	0.0E+00	AB028942.1	NT	Homo sapiens mRNA for KIAA1019 protein, partial cds
834	13604	26275	4.62	0.0E+00	AB028942.1	NT	Homo sapiens mRNA for KIAA1019 protein, partial cds
835	13605	26276	9.56	0.0E+00	AB028942.1	NT	Homo sapiens SON DNA binding protein (SON) mRNA
836	13606	26277	4.34	0.0E+00	AB028942.1	NT	Homo sapiens SON DNA binding protein (SON) mRNA
837	13607	26278	0.8	0.0E+00	4506728	NT	Homo sapiens ribosomal protein S5 (RPS5) mRNA
841	13611	26281	2.2	0.0E+00	AB020717.1	NT	Homo sapiens mRNA for KIAA0910 protein, partial cds
841	13611	26282	2.2	0.0E+00	AB020717.1	NT	Homo sapiens mRNA for KIAA0910 protein, partial cds
842	13612	26283	2.45	0.0E+00	AA53272.1	EST_HUMAN	h66407.s1 NCI CGAP_P10 Homo sapiens cDNA clone IMAGE:997463
842	13612	26284	2.45	0.0E+00	AA53272.1	EST_HUMAN	h66407.s1 NCI CGAP_P10 Homo sapiens cDNA clone IMAGE:997463
843	13613		9.44	0.0E+00	BF677694.1	EST_HUMAN	60208579F1 NIH_MGC_83 Homo sapiens cDNA clone IMAGE:4249915 5'
847	13617	26285	1.94	0.0E+00	7657213	NT	Homo sapiens hormonally upregulated neu tumor-associated kinase (HUNK), mRNA
847	13617	26286	1.94	0.0E+00	7657213	NT	Homo sapiens hormonally upregulated neu tumor-associated kinase (HUNK), mRNA
848	13618	26287	3.31	0.0E+00	7657213	NT	Homo sapiens hormonally upregulated neu tumor-associated kinase (HUNK), mRNA
848	13618	26288	3.31	0.0E+00	7657213	NT	Homo sapiens hormonally upregulated neu tumor-associated kinase (HUNK), mRNA

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
871	13640	26311	0.91	0.0E+00	AL163203.2	NT	Homo sapiens chromosome 21 segment HS21C003
878	13647	26316	2.57	0.0E+00	BE089592.1	EST_HUMAN	QV0-BT0703-280400-211-g11 BT0703 Homo sapiens cDNA
888	13647	26317	2.57	0.0E+00	BE089592.1	EST_HUMAN	QV0-BT0703-280400-211-g11 BT0703 Homo sapiens cDNA
898	13657	26328	6.48	0.0E+00	AL163203.2	NT	Homo sapiens chromosome 21 segment HS21C003
900	13666		4.98	0.0E+00	4504958	NT	Homo sapiens laminin receptor 1 (67kD, ribosomal protein SA) (LAMR1), mRNA
901	13668	26332	8.49	0.0E+00	4504958	NT	Homo sapiens laminin receptor 1 (67kD, ribosomal protein SA) (LAMR1), mRNA
902	13668	26333	1.21	0.0E+00	AF089747.1	NT	Homo sapiens alpha-1-antichymotrypsin precursor, mRNA, partial cds
905	13672	26336	1.78	0.0E+00	L28101.1	NT	Homo sapiens kallistatin (P14) gene, exons 1-4, complete cds
905	13672	26337	1.05	0.0E+00	Z20696.1	NT	Homo sapiens of cardiac alpha-myosin heavy chain gene
926	13693	26356	1.05	0.0E+00	Z20696.1	NT	Homo sapiens of cardiac alpha-myosin heavy chain gene
926	13693	26357	2.98	0.0E+00	AB028211.1	NT	Homo sapiens mRNA for KIAA0994 protein, partial cds
931	13698	26362	2.98	0.0E+00	AB028211.1	NT	Homo sapiens mRNA for KIAA0994 protein, partial cds
932	13699	26363	1.19	0.0E+00	M37190.1	NT	Human ras inhibitor mRNA, 3' end
933	13700	26364	9.95	0.0E+00	M37190.1	NT	Human ras inhibitor mRNA, 3' end
934	13701	26365	0.9	0.0E+00	M37190.1	NT	Human ras inhibitor mRNA, 3' end
934	13701	26366	2.18	0.0E+00	4507430	NT	Homo sapiens thyrotrophic embryonic factor (TEF), mRNA
942	15556	26373	2.18	0.0E+00	4507430	NT	Homo sapiens thyrotrophic embryonic factor (TEF), mRNA
942	15556	26374	3.38	0.0E+00	A1001948.1	EST_HUMAN	os98e03.s1 NCL_CGAP_GC3 Homo sapiens cDNA clone IMAGE:1613404 3'
943	13709	26375	3.38	0.0E+00	A1001948.1	EST_HUMAN	os98e03.s1 NCL_CGAP_GC3 Homo sapiens cDNA clone IMAGE:1613404 3'
943	13709	26375	9.49	0.0E+00	7657268	NT	Homo sapiens KIAA0929 protein Mx2 interacting nuclear target (MINT) homolog (KIAA0929), mRNA
954	13719	26385	3.18	0.0E+00	AB030566.1	NT	Homo sapiens mRNA for PSP24, complete cds
962	13727	26391	1.11	0.0E+00	BF366874.1	EST_HUMAN	PM2-GN0014-050900-001-f02 GN0014 Homo sapiens cDNA
962	13727	26392	1.11	0.0E+00	BF366874.1	EST_HUMAN	PM2-GN0014-050900-001-f02 GN0014 Homo sapiens cDNA
962	13727	26393	1.11	0.0E+00	BF366874.1	EST_HUMAN	PM2-GN0014-050900-001-f02 GN0014 Homo sapiens cDNA
963	13728	26394	1.11	0.0E+00	BF366874.1	EST_HUMAN	PM2-GN0014-050900-001-f02 GN0014 Homo sapiens cDNA
963	13728	26395	1.69	0.0E+00	X52207.1	NT	Homo sapiens partial o-fgr gene, exons 2 and 3
972	13737	26402	1.69	0.0E+00	X52207.1	NT	Homo sapiens partial o-fgr gene, exons 2 and 3
984	13748	26410	2.03	0.0E+00	4757969	NT	Homo sapiens partial o-fgr gene, exons 2 and 3
985	13748	26411	1.68	0.0E+00	U83668.1	NT	Human beta-tubulin (TUB4q) gene, complete cds
986	13749	26411	50.9	0.0E+00	U83668.1	NT	Human beta-tubulin (TUB4q) gene, complete cds
989	13752		25.17	0.0E+00	U83668.1	NT	Human beta-tubulin (TUB4q) gene, complete cds
989	13752		5.82	0.0E+00	AF198480.1	NT	Homo sapiens 8q22.1 region and MTG8 (CBFA2T1) gene, partial cds
990	13752		8.64	0.0E+00	AF198480.1	NT	Homo sapiens 8q22.1 region and MTG8 (CBFA2T1) gene, partial cds
993	13755	26418	1.17	0.0E+00	AF111170.3	NT	Homo sapiens 14q32 Jagged2 gene, complete cds; and unknown gene

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
994	13755	26416	1.83	0.0E+00	AF111170.3	NT	Homo sapiens 14q32 Jagged2 gene, complete cds; and unknown gene
995	13755	26416	2.3	0.0E+00	AF111170.3	NT	Homo sapiens 14q32 Jagged2 gene, complete cds; and unknown gene
996	13756	26417	3.78	0.0E+00	AF111170.3	NT	Homo sapiens 14q32 Jagged2 gene, complete cds; and unknown gene
999	13759	26420	3.08	0.0E+00	7661685	NT	Homo sapiens DKFZP586M0122 protein (DKFZP586M0122), mRNA
1003	13763	26424	2.5	0.0E+00	5803114	NT	Homo sapiens inner membrane protein, mitochondrial (mitofilin) (IMMT), mRNA
1004	13764		1.43	0.0E+00	AA459880.1	EST_HUMAN	aa86g07.s1 Strategene fetal retina 937202 Homo sapiens cDNA clone IMAGE:838236 3' similar to SW:PRS8_HUMAN P47210 26S PROTEASE REGULATORY SUBUNIT 8;
1007	13767	26428	1.9	0.0E+00	N43182.1	EST_HUMAN	EST5124 WATM1 Homo sapiens cDNA clone 5124 similar to DNA-DIRECTED RNA POLYMERASE II (alignment Ser and Pro with BLASTx or p)
1007	13767	26429	1.9	0.0E+00	N43182.1	EST_HUMAN	EST5124 WATM1 Homo sapiens cDNA clone 5124 similar to DNA-DIRECTED RNA POLYMERASE II (alignment Ser and Pro with BLASTx or p)
1010	13770		3.55	0.0E+00	8922933	NT	Homo sapiens hypothetical protein FLJ11196 (FLJ11196), mRNA
1025	13785	26445	2.49	0.0E+00	4758569	NT	Homo sapiens heat shock 70kD protein 9B (mortalin-2) (HSPA9B) mRNA
1043	13802	26460	1.89	0.0E+00	4826672	NT	Homo sapiens cadherin 6, K-cadherin (fetal kidney) (CDH6) mRNA
1043	13802	26461	1.89	0.0E+00	4826672	NT	Homo sapiens cadherin 6, K-cadherin (fetal kidney) (CDH6) mRNA
1047	13806	26465	3.63	0.0E+00	8923624	NT	Homo sapiens hypothetical protein FLJ20695 (FLJ20695), mRNA
1047	13806	26466	3.63	0.0E+00	8923624	NT	Homo sapiens hypothetical protein FLJ20695 (FLJ20695), mRNA
1048	13807	26467	119.02	0.0E+00	AJ245922.1	NT	Homo sapiens mRNA for alpha-tubulin 8 (TUBA8 gene)
1050	13809		1.19	0.0E+00	8923087	NT	Homo sapiens hypothetical protein FLJ20080 (FLJ20080), mRNA
1052	13811	26471	3.52	0.0E+00	5174384	NT	Homo sapiens alkylation repair, alkB homolog (ABH), mRNA
1060	13818	26480	2.3	0.0E+00	4758117	NT	Homo sapiens Death associated protein 3 (DAP3) mRNA
1074	13832	26490	2.2	0.0E+00	BE005208.1	EST_HUMAN	MRQ-BN0115-200300-003-108 BN0115 Homo sapiens cDNA
1097	13855	26514	6.04	0.0E+00	7706134	NT	Homo sapiens potassium channel, subfamily K, member 9 (KCNK9), mRNA
1097	13855	26515	6.04	0.0E+00	7706134	NT	Homo sapiens potassium channel, subfamily K, member 9 (KCNK9), mRNA
1110	13867	26526	0.9	0.0E+00	4826947	NT	Homo sapiens protein kinase, X-linked (PRKX) mRNA
1111	13868	26527	4.27	0.0E+00	4506712	NT	Homo sapiens protein kinase, X-linked (PRKX) mRNA
1113	13870	26529	0.96	0.0E+00	8923290	NT	Homo sapiens ribosomal protein S27a (RPS27A) mRNA
1118	13873	26532	23.77	0.0E+00	AB002059.1	NT	Homo sapiens DNA for Human P2XM, complete cds
1118	13875	26533	44.3	0.0E+00	AB002059.1	NT	Homo sapiens DNA for Human P2XM, complete cds
1119	13876	26534	5.51	0.0E+00	7657468	NT	Homo sapiens DNA for Human P2XM, complete cds
1119	13876	26535	5.51	0.0E+00	7657468	NT	Homo sapiens similar to rat integral membrane glycoprotein POM121 (POM121L1), mRNA
1122	13878	26537	1.1	0.0E+00	7706500	NT	Homo sapiens similar to rat integral membrane glycoprotein POM121 (POM121L1), mRNA
1123	13878	26538	0.87	0.0E+00	X95826.1	NT	Homo sapiens Npw38-binding protein Npw38 (LOC51728), mRNA
							H. sapiens ART4 gene

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
1123	13879	26539	0.87	0.0E+00	X95826.1	NT	H. sapiens ART4 gene
1124	13880	26540	0.92	0.0E+00	AI147650.1	EST_HUMAN	q22d10.x1 Soares_pregnant_uterus_NHPU Homo sapiens cDNA clone IMAGE:1697011 3'
1126	13882	26542	1.56	0.0E+00	AB020710.1	NT	Homo sapiens mRNA for KIAA0903 protein, partial cds
1133	13889	26548	0.71	0.0E+00	4758081	NT	Homo sapiens chondroitin sulfate proteoglycan 2 (versican) (CSPG2) mRNA
1133	13889	26549	0.71	0.0E+00	4758081	NT	Homo sapiens chondroitin sulfate proteoglycan 2 (versican) (CSPG2) mRNA
1134	13890	26550	1.39	0.0E+00	9966844	NT	Homo sapiens chromosome 12 open reading frame 3 (C12ORF3), mRNA
1145	13900	26561	6.83	0.0E+00	7305076	NT	Homo sapiens glutamate decarboxylase 1 (brain, 67kD) (GAD1), transcript variant GAD25, mRNA
1145	13900	26562	6.83	0.0E+00	7305076	NT	Homo sapiens glutamate decarboxylase 1 (brain, 67kD) (GAD1), transcript variant GAD25, mRNA
1148	13903	26565	1.85	0.0E+00	AB037835.1	NT	Homo sapiens mRNA for KIAA1414 protein, partial cds
1155	13910	26574	0.75	0.0E+00	4557887	NT	Homo sapiens keratin 18 (KRT18) mRNA
1167	13921	26583	4.54	0.0E+00	AF034966.1	NT	Homo sapiens amphiphysin 1 mRNA, alternative splice isoform, complete cds
1187	13939	26617	1.52	0.0E+00	7657336	NT	Homo sapiens mult. (E. coli) homolog 3 (MLH3), mRNA
1201	13953	26620	1.7	0.0E+00	8922593	NT	Homo sapiens hypothetical protein FLJ10697 (FLJ10697), mRNA
1204	13956	26620	1.53	0.0E+00	AF264750.1	NT	Homo sapiens ALR-like protein mRNA, partial cds
1204	13956	26621	1.53	0.0E+00	AF264750.1	NT	Homo sapiens ALR-like protein mRNA, partial cds
1205	13967	26622	1.77	0.0E+00	AF264750.1	NT	Homo sapiens ALR-like protein mRNA, partial cds
1206	15562	26623	1.53	0.0E+00	AF264750.1	NT	Homo sapiens ALR-like protein mRNA, partial cds
1224	13974	26646	9.12	0.0E+00	AF109718.1	NT	Homo sapiens chromosome 3 subtelomeric region
1225	13975	26647	1.71	0.0E+00	4503098	NT	Homo sapiens chondroitin sulfate proteoglycan 4 (melanoma-associated) (CSPG4), mRNA
1243	13992	26677	2.33	0.0E+00	Y18000.1	NT	Homo sapiens NF2 gene
1251	14000	26687	23.59	0.0E+00	4506718	NT	Homo sapiens ribosomal protein S2 (RPS2) mRNA
1258	14007	26676	3.07	0.0E+00	AF084479.1	NT	Homo sapiens Williams-Beuren syndrome deletion transcript 9 (WBSCR9) mRNA, complete cds
1265	14014	26681	2.07	0.0E+00	AB040940.1	NT	Homo sapiens mRNA for KIAA1507 protein, partial cds
1265	14014	26682	2.07	0.0E+00	AB040940.1	NT	Homo sapiens mRNA for KIAA1507 protein, partial cds
1277	14027	26695	2.04	0.0E+00	5174748	NT	Homo sapiens Wolfram syndrome (WFS) mRNA
1277	14027	26696	2.04	0.0E+00	5174748	NT	Homo sapiens Wolfram syndrome (WFS) mRNA
1277	14027	26697	2.04	0.0E+00	5174748	NT	Homo sapiens Wolfram syndrome (WFS) mRNA
1278	14028	26709	3.78	0.0E+00	AF096156.1	NT	Homo sapiens protein phosphatase 2A BR gamma subunit gene, exon 5
1288	15564	26710	1.63	0.0E+00	7657529	NT	Homo sapiens rhabdoid tumor deletion region protein 1 (RTDR1), mRNA
1288	15564	26710	1.63	0.0E+00	7657529	NT	Homo sapiens rhabdoid tumor deletion region protein 1 (RTDR1), mRNA
1293	14042	26715	2.03	0.0E+00	5803146	NT	Homo sapiens ring finger protein 9 (RNFG), mRNA
1294	14043	26716	0.89	0.0E+00	4508004	NT	Homo sapiens zinc finger protein 173 (ZNF173) mRNA
1296	14045	26717	1.12	0.0E+00	5803146	NT	Homo sapiens zinc finger protein 9 (RNFG), mRNA
1297	14046	26718	0.72	0.0E+00	4508004	NT	Homo sapiens zinc finger protein 173 (ZNF173) mRNA

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1299	14048	26720	4.71	0.0E+00	AB011149.1	NT	Homo sapiens mRNA for KIAA0577 protein, complete cds
1300	14049	26721	2.04	0.0E+00	7661965	NT	Homo sapiens KIAA0170 gene product (KIAA0170), mRNA
1301	14050	26722	5.88	0.0E+00	7661965	NT	Homo sapiens KIAA0170 gene product (KIAA0170), mRNA
1302	14051	26723	3.01	0.0E+00	8567387	NT	Homo sapiens KIAA0170 gene product (KIAA0170), mRNA
1302	14051	26724	3.01	0.0E+00	8567387	NT	Homo sapiens period (Drosophila) homolog 3 (PER3), mRNA
1314	14052	26737	1.82	0.0E+00	M14123.1	NT	Homo sapiens period (Drosophila) homolog 3 (PER3), mRNA
1387	14134	26809	1.38	0.0E+00	AJ250014.1	NT	Human endogenous retrovirus HERV-K10
1393	14140	26817	3.39	0.0E+00	AJ277892.1	NT	Homo sapiens mRNA for Familial Cylindromatosis cyd gene
1396	14143	26821	1.59	0.0E+00	AL208756.1	EST_HUMAN	Homo sapiens partial TTN gene for titin
1397	14144	26822	13.21	0.0E+00	6042206	NT	qg38b06.x1 Soerae_testis_NHT Homo sapiens cDNA clone IMAGE:1837427 3' similar to WP-T27A1.5
1406	14153	26833	5	0.0E+00	4505646	NT	RAN, member RAS oncogene family/Homo sapiens RAN, member RAS oncogene family (RAN), mRNA
1406	14153	26834	5	0.0E+00	4505646	NT	Homo sapiens propionyl coenzyme carboxylase subunit/keatin type 2 (PCSK2) mRNA
1408	14155	26837	4.08	0.0E+00	7705565	NT	Homo sapiens propionyl coenzyme carboxylase subunit/keatin type 2 (PCSK2) mRNA
1408	14155	26838	4.08	0.0E+00	7705565	NT	Homo sapiens KIAA1114 protein (KIAA1114), mRNA
1410	14157	26839	4.59	0.0E+00	AJ238093.1	NT	Homo sapiens KIAA1114 protein (KIAA1114), mRNA
1420	14168	26852	3.02	0.0E+00	AF038280.1	NT	Homo sapiens partial AF-4 gene, exons 2 to 7 and Alu repeat elements
1431	14178	26863	5.39	0.0E+00	4507720	NT	Homo sapiens alpha1-6fucosyltransferase (alpha1-6FucT) gene, exon 7
1436	14183	26868	17.93	0.0E+00	U35637.1	NT	Homo sapiens titin (TTN) mRNA
1446	14193	26876	2.59	0.0E+00	AL132899.1	NT	Human nebulin mRNA, partial cds
1447	14194	26877	1.82	0.0E+00	AL137764.1	NT	Human nebulin mRNA, partial cds
1451	14198	26882	1.73	0.0E+00	D87077.1	NT	Novel human gene on chromosome 20
1454	14201	26885	4.53	0.0E+00	8912457	NT	Novel human gene mapping to chromosome 1
1456	14203	26887	1.55	0.0E+00	7661965	NT	Human mRNA for KIAA0240 gene, partial cds
1456	14203	26888	1.55	0.0E+00	7661965	NT	Homo sapiens calcineurin binding protein 1 (KIAA0330), mRNA
1460	14207	26893	0.97	0.0E+00	M60676.1	NT	Homo sapiens KIAA0170 gene product (KIAA0170), mRNA
1460	14207	26894	0.97	0.0E+00	M60676.1	NT	Homo sapiens KIAA0170 gene product (KIAA0170), mRNA
1500	14246	26932	1.37	0.0E+00	7706434	NT	Human von Willebrand factor pseudogene corresponding to exons 23 through 34
1516	14263	26949	1.21	0.0E+00	AW959887.1	EST_HUMAN	Human von Willebrand factor pseudogene corresponding to exons 23 through 34
1517	14264	26950	1.76	0.0E+00	AA481172.1	EST_HUMAN	Homo sapiens HDIC for homolog of Drosophila headcase (LOC51696), mRNA
1522	14269	26953	49.82	0.0E+00	AF023860.1	NT	EST371757 MAGC resequences, MAGF Homo sapiens cDNA
							aa34403.1 NCL CGAP_GOB1 Homo sapiens cDNA clone IMAGE:815116 5'
							Cercopithecus aethiops cyclophilin A mRNA, complete cds

Table 4
Single Exon Probes Expressed in Brain

Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
1522	14269	26954	49.82	0.0E+00	AF023860.1	NT	Cercopithecus aethiops cyclophilin A mRNA, complete cds
1524	14271	26957	1.24	0.0E+00	AW976097.1	EST_HUMAN	EST388206 MAGE resequences, MAGN Homo sapiens cDNA
1524	14271	26958	1.24	0.0E+00	AW976097.1	EST_HUMAN	EST388206 MAGE resequences, MAGN Homo sapiens cDNA
1525	14272	26959	5.49	0.0E+00	D10884.1	NT	Bovine mRNA for neurocalcin
1527	14274		2.07	0.0E+00	U78027.1	NT	Homo sapiens Bruton's tyrosine kinase (BTK), alpha-D-galactosidase A (GLA), L44-like ribosomal protein (L44L) and FTP3 (FTP3) genes, complete cds
1528	14275	26962	2.1	0.0E+00	4505404	NT	Homo sapiens transmembrane glycoprotein (GPNMB) mRNA
1530	14275	26963	2.1	0.0E+00	4505404	NT	Homo sapiens transmembrane glycoprotein (GPNMB) mRNA
1530	14277	26965	3.3	0.0E+00	7692405	NT	Homo sapiens KIAA0957 protein (KIAA0957), mRNA
1531	14278		7.29	0.0E+00	7656972	NT	Homo sapiens TNF-inducible protein CG12-1 (CG12-1), mRNA
1537	14284	26971	1.84	0.0E+00	M98478.1	NT	Human transglutaminase mRNA, complete cds
1540	14287	26973	3.72	0.0E+00	4507720	NT	Homo sapiens titin (TTN) mRNA
1540	14287	26974	3.72	0.0E+00	4507720	NT	Homo sapiens titin (TTN) mRNA
1541	15572		11.72	0.0E+00	4506654	NT	Homo sapiens titin (TTN) mRNA
1542	14288	26976	11.72	0.0E+00	M14199.1	NT	Homo sapiens ribosomal protein L5 (RPL5) mRNA
1553	14300	26988	2.86	0.0E+00	4507720	NT	Human laminin receptor (2H5 epitope) mRNA, 5' end
1553	14300	26989	2.86	0.0E+00	4507720	NT	Homo sapiens titin (TTN) mRNA
1555	14302	26990	11.7	0.0E+00	4503098	NT	Homo sapiens titin (TTN) mRNA
1563	14310		1.21	0.0E+00	D00333.1	NT	Homo sapiens chondroitin sulfate proteoglycan 4 (melanoma-associated) (CSPG4), mRNA
1574	14321	27007	1.65	0.0E+00	Z83738.1	NT	human c-yes-2 gene
1575	14322	27008	1.59	0.0E+00	5921460	NT	H. sapiens hH2B/e gene
1575	14323	27009	1.59	0.0E+00	5921460	NT	Homo sapiens butyrophilin, subfamily 2, member A1 (BTN2A1), mRNA
1576	14323	27010	11.18	0.0E+00	AV690831.1	EST_HUMAN	Homo sapiens butyrophilin, subfamily 2, member A1 (BTN2A1), mRNA
1576	14323	27011	11.18	0.0E+00	AV690831.1	EST_HUMAN	AV690831 GKC Homo sapiens cDNA clone GKCBOF02 5'
1579	15573	27014	9.85	0.0E+00	AB040905.1	NT	AV690831 GKC Homo sapiens cDNA clone GKCBOF02 5'
1583	14329	27015	1.63	0.0E+00	AF157476.1	NT	Homo sapiens mRNA for KIAA1472 protein, partial cds
1585	14331	27018	9.78	0.0E+00	7662183	NT	Homo sapiens DNA polymerase zeta catalytic subunit (REV3) mRNA, complete cds
1585	14331	27019	9.78	0.0E+00	7662183	NT	Homo sapiens KIAA0569 gene product (KIAA0569), mRNA
1587	14333	27020	42.75	0.0E+00	5729876	NT	Homo sapiens KIAA0569 gene product (KIAA0569), mRNA
1587	14333	27021	42.75	0.0E+00	5729876	NT	Homo sapiens heat shock 70kD protein 10 (HSC71) (HSPA10), mRNA
1589	14335	27023	7.94	0.0E+00	M91803.1	NT	Homo sapiens heat shock 70kD protein 10 (HSC71) (HSPA10), mRNA
1604	14350	27039	5.85	0.0E+00	H26973.1	EST_HUMAN	Human sodium channel mRNA
1614	14361	27051	2	0.0E+00	AB046829.1	NT	y076005.61 Soares adult brain N2b4HB55Y Homo sapiens cDNA clone IMAGE:183848 3'
1614	14361	27052	2	0.0E+00	AB046829.1	NT	Homo sapiens mRNA for KIAA1609 protein, partial cds
1614	14361	27052	2	0.0E+00	AB046829.1	NT	Homo sapiens mRNA for KIAA1609 protein, partial cds

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
1659	14405	27095	1.25	0.0E+00	BE144364.1	EST_HUMAN	MRO-HT0168-191199-004-b11 HT0168 Homo sapiens cDNA
1659	14405	27096	1.28	0.0E+00	BE144364.1	EST_HUMAN	MRO-HT0168-191199-004-b11 HT0168 Homo sapiens cDNA
1663	14409	27100	1.68	0.0E+00	AI768104.1	EST_HUMAN	wg81b07.x1 Scores NSF_F8_9W_OT_PA_P_S1 Homo sapiens cDNA clone IMAGE:2371477 3' similar to TR:Q62788 Q62788 CYS2HS2 ZINC FINGER PROTEIN. ;
1684	14410	27101	1.2	0.0E+00	4758573	NT	Homo sapiens hematopoietic-derived zinc finger protein (HD-ZNF1) mRNA
1685	14411	27102	2.61	0.0E+00	AF067177.1	NT	Homo sapiens T-cell receptor gamma V1 gene region
1689	14414	27106	1.76	0.0E+00	M29580.1	NT	Human zinc-finger protein 7 (ZFP7) mRNA, complete cds
1689	14414	27107	1.76	0.0E+00	M29580.1	NT	Human zinc-finger protein 7 (ZFP7) mRNA, complete cds
1671	14416	27109	1.35	0.0E+00	4557887	NT	Homo sapiens keratin 18 (KRT18) mRNA
1672	14417	27110	1.5	0.0E+00	7657065	NT	Homo sapiens v-ets avian erythroblastosis virus E26 oncogene related (ERG) mRNA
1675	14420	27113	1.12	0.0E+00	BE222374.1	EST_HUMAN	hu11405.x1 NCL_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3166281 3' similar to TR:O95147 O95147 MKP-1 LIKE PROTEIN TYROSINE PHOSPHATASE ;
1675	14420	27114	1.12	0.0E+00	BE222374.1	EST_HUMAN	hu11405.x1 NCL_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3166281 3' similar to TR:O95147 O95147 MKP-1 LIKE PROTEIN TYROSINE PHOSPHATASE ;
1677	14421	27116	3.24	0.0E+00	4557610	NT	Homo sapiens gamma-aminobutyric acid (GABA) A receptor, gamma 2 (GABRG2) mRNA
1680	14424	27119	3.18	0.0E+00	H30132.1	EST_HUMAN	gamma-aminobutyric acid (GABA) A receptor, gamma 2 (GABRG2) mRNA
1680	14424	27120	3.18	0.0E+00	H30132.1	EST_HUMAN	gamma-aminobutyric acid (GABA) A receptor, gamma 2 (GABRG2) mRNA
1682	14426	27122	1.32	0.0E+00	Z80780.1	EST_HUMAN	GAMMA-GLUTAMYL TRANSPEPTIDASE 5 PRECURSOR (HUMAN);
1682	14426	27123	1.32	0.0E+00	Z80780.1	NT	GAMMA-GLUTAMYL TRANSPEPTIDASE 5 PRECURSOR (HUMAN);
1685	14429	27123	13.71	0.0E+00	5031748	NT	H. sapiens H2B/h gene
1693	14437	27133	1.11	0.0E+00	AF169963.1	NT	Homo sapiens high-mobility group (nonhistone chromosomal) protein 17 (HMG17) mRNA
1695	14438	27136	3.53	0.0E+00	8923841	NT	Homo sapiens WNT16 protein (WNT16) mRNA, complete cds
1702	14445	27145	1.11	0.0E+00	4826973	NT	Homo sapiens FOXJ2 forkhead factor (LOC55810) mRNA
1708	14451	27152	4.08	0.0E+00	AB026542.1	NT	Homo sapiens RNA binding motif protein, Y chromosome, family 1, member A1 (RBM7A1) mRNA
1710	14453	27152	2.19	0.0E+00	S94400.1	NT	Homo sapiens WAVE2 mRNA for WASP-family protein, complete cds
1725	15577	27167	1.16	0.0E+00	11545911	NT	TGR zeta [human, Genomic] mRNA, 365 nt, segment 1 of 8
1739	14481	27181	1.93	0.0E+00	AF273941.1	NT	Homo sapiens NOD2 protein (NOD2) mRNA
1778	15578	27228	6.86	0.0E+00	4506718	NT	Homo sapiens SMCY (SMCY) gene, complete cds
1782	14523	27228	3.37	0.0E+00	4557556	NT	Homo sapiens E1A binding protein p300 (EP300) mRNA
1782	14523	27229	3.37	0.0E+00	4557556	NT	Homo sapiens E1A binding protein p300 (EP300) mRNA
1784	14529	27232	1.42	0.0E+00	U63963.1	NT	Human CSF-1 receptor (FMS) gene, complete cds, and (SMF) gene, partial cds
1787	14528		1.2	0.0E+00	W76571.1	EST_HUMAN	zsf6g09.r1 Scores_fetal_heart_NbHH19W Homo sapiens cDNA clone IMAGE:345664 5'

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
1788	15579	27296	2.74	0.0E+00	4505332	NT	Homo sapiens nuclear autoantigenic sperm protein (histone-binding) (NASP) mRNA
1800	14540	27251	5.68	0.0E+00	U14967.1	NT	Human ribosomal protein L21 mRNA, complete cds
1802	14542	27254	2.79	0.0E+00	AB002331.1	NT	Human mRNA for KIAA0333 gene, partial cds
1803	14543	27255	4.07	0.0E+00	4502284	NT	Homo sapiens activating transcription factor 4 (tax-responsive enhancer element B67) (ATF4) mRNA
1803	14543	27256	4.07	0.0E+00	4502264	NT	Homo sapiens activating transcription factor 4 (tax-responsive enhancer element B67) (ATF4) mRNA
1803	14543	27257	4.07	0.0E+00	4502264	NT	Homo sapiens activating transcription factor 4 (tax-responsive enhancer element B67) (ATF4) mRNA
1812	14552	27266	1.63	0.0E+00	4505328	NT	Homo sapiens protein tyrosine phosphatase, receptor-type, zeta polypeptide 1 (PTPRZ1) mRNA
1828	14565	27276	5.82	0.0E+00	6005855	NT	Homo sapiens Retina-derived POU-domain factor-1 (RPF-1), mRNA
1828	14565	27277	5.82	0.0E+00	6005855	NT	Homo sapiens Retina-derived POU-domain factor-1 (RPF-1), mRNA
1836	14575	27287	1.12	0.0E+00	AB032978.1	NT	Homo sapiens mRNA for KIAA1152 protein, partial cds
1836	14575	27288	1.12	0.0E+00	AB032978.1	NT	Homo sapiens mRNA for KIAA1152 protein, partial cds
1840	14578	27290	4.35	0.0E+00	4826783	NT	Homo sapiens potassium voltage-gated channel, Shab-related subfamily, member 1 (KCNB1) mRNA
1840	14578	27291	4.35	0.0E+00	4826783	NT	Homo sapiens potassium voltage-gated channel, Shab-related subfamily, member 1 (KCNB1) mRNA
1841	14579	27292	5.47	0.0E+00	U07147.1	NT	Human retinal degeneration slow (RDS) gene, exon 1
1841	14579	27293	5.47	0.0E+00	U07147.1	NT	Human retinal degeneration slow (RDS) gene, exon 1
1844	14582	27296	1.46	0.0E+00	AW207280.1	EST_HUMAN	U1-H-B11-afn-f07-Q-UJ.st NCL CGAP_Sub3 Homo sapiens cDNA clone IMAGE:2722333 3'
1844	14582	27297	1.46	0.0E+00	AW207280.1	EST_HUMAN	U1-H-B11-afn-f07-Q-UJ.st NCL CGAP_Sub3 Homo sapiens cDNA clone IMAGE:2722333 3'
1868	14606	27316	3.49	0.0E+00	BE277465.1	EST_HUMAN	601179164F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:3547239 5'
1868	14606	27317	3.49	0.0E+00	BE277465.1	EST_HUMAN	601179164F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:3547239 5'
1887	14624	27334	0.93	0.0E+00	BE006292.1	EST_HUMAN	RC2-BN0126-200300-012-b04 BN0126 Homo sapiens cDNA
1916	14653	27362	2.16	0.0E+00	4506384	NT	Homo sapiens RAD1 (S. pombe) homolog (RAD1) mRNA, and translated products
1916	14653	27363	2.16	0.0E+00	4506384	NT	Homo sapiens RAD1 (S. pombe) homolog (RAD1) mRNA, and translated products
1924	14661	27372	1.22	0.0E+00	AF157476.1	NT	Homo sapiens DNA polymerase zeta catalytic subunit (REV3) mRNA, complete cds
1925	15592	27372	1.19	0.0E+00	M98478.1	NT	Human transglutaminase mRNA, complete cds
1925	15592	27373	1.19	0.0E+00	M98478.1	NT	Human transglutaminase mRNA, complete cds
1930	14686	27380	1.53	0.0E+00	4507464	NT	Homo sapiens transforming growth factor, beta 3 (TGFB3), mRNA
1930	14686	27381	1.53	0.0E+00	4507464	NT	Homo sapiens transforming growth factor, beta 3 (TGFB3), mRNA
1933	14698	27383	1.42	0.0E+00	7657036	NT	Homo sapiens death receptor 6 (DR6), mRNA

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
1935	14670		4.27	0.0E+00	AF240786.1	NT	Homo sapiens glutathione S-transferase theta 2 (GSTT2) and glutathione S-transferase theta 1 (GSTT1) genes, complete cds
1940	14675		1.35	0.0E+00	M55632.1	NT	Human topoisomerase I pseudogene 1
1949	14684	27398	1.94	0.0E+00	4809282	NT	Homo sapiens histidine ammonia-lyase (HAL) mRNA
1949	14684	27397	1.94	0.0E+00	4809282	NT	Homo sapiens histidine ammonia-lyase (HAL) mRNA
1959	14695		1.15	0.0E+00	AL163252.2	NT	Homo sapiens chromosome 21 segment HS21C052
1961	14697	27410	1.09	0.0E+00	8400716	NT	Homo sapiens nebulin (NEB), mRNA
1961	14697	27411	1.09	0.0E+00	8400716	NT	Homo sapiens nebulin (NEB), mRNA
1962	14698	27412	2.49	0.0E+00	4826638	NT	Homo sapiens actinin, alpha 4 (ACTN4) mRNA
1962	14698	27413	2.49	0.0E+00	4826638	NT	Homo sapiens actinin, alpha 4 (ACTN4) mRNA
1973	14709	27427	1.36	0.0E+00	AB018333.1	NT	Homo sapiens mRNA for KIAA0790 protein, partial cds
1973	14709	27428	1.36	0.0E+00	AB018333.1	NT	Homo sapiens mRNA for KIAA0790 protein, partial cds
1979	14715	27432	1.69	0.0E+00	M33782.1	NT	Human TFEB protein mRNA, partial cds
1979	14715	27433	1.69	0.0E+00	M33782.1	NT	Human TFEB protein mRNA, partial cds
1981	14717	27434	1.57	0.0E+00	AW193024.1	EST_HUMAN	x169b01.x1 NCI CGAP_Pan1 Homo sapiens cDNA clone IMAGE:2679913 3'
1981	14717	27435	1.57	0.0E+00	AW193024.1	EST_HUMAN	x169b01.x1 NCI CGAP_Pan1 Homo sapiens cDNA clone IMAGE:2679913 3'
1982	14718	27436	5.96	0.0E+00	6912457	NT	Homo sapiens calcineurin binding protein 1 (KIAA0330), mRNA
1982	14718	27437	5.96	0.0E+00	6912457	NT	Homo sapiens calcineurin binding protein 1 (KIAA0330), mRNA
1984	14720	27439	2	0.0E+00	7662095	NT	Homo sapiens KIAA0408 gene product (KIAA0408), mRNA
1985	14721	27440	1.19	0.0E+00	AB011149.1	NT	Homo sapiens mRNA for KIAA0577 protein, complete cds
1986	14722	27441	1.58	0.0E+00	Z47556.1	NT	H. sapiens genes for semenogelin I and semenogelin II
1986	14722	27442	1.58	0.0E+00	Z47556.1	NT	H. sapiens genes for semenogelin I and semenogelin II
1993	14729	27451	3.75	0.0E+00	AB040946.1	NT	Homo sapiens mRNA for KIAA1513 protein, partial cds
2014	14749	27476	1.02	0.0E+00	AF273941.1	NT	Homo sapiens SMCY (SMCY) gene, complete cds
2014	14749	27477	1.02	0.0E+00	AF273941.1	NT	Homo sapiens SMCY (SMCY) gene, complete cds
2046	14779	27507	1.64	0.0E+00	7706742	NT	Homo sapiens TP53TG3a (TP53TG3a), mRNA
2052	14785	27511	4.13	0.0E+00	AU140831.1	EST_HUMAN	AU140831 PLACE4 Homo sapiens cDNA clone PLACE4000321 5'
2053	14155	28837	1.55	0.0E+00	7705565	NT	Homo sapiens KIAA1114 protein (KIAA1114), mRNA
2053	14155	28838	1.55	0.0E+00	7705565	NT	Homo sapiens KIAA1114 protein (KIAA1114), mRNA
2055	14787	27513	2.04	0.0E+00	AA077589.1	EST_HUMAN	7B22E10 Chromosome 7 Fetal Brain cDNA Library Homo sapiens cDNA clone 7B22E10
2055	14787	27514	2.04	0.0E+00	AA077589.1	EST_HUMAN	7B22E10 Chromosome 7 Fetal Brain cDNA Library Homo sapiens cDNA clone 7B22E10
2057	14789		2.41	0.0E+00	7657468	NT	Homo sapiens similar to rat integral membrane glycoprotein POM121 (POM121L1), mRNA
2059	14791		1.91	0.0E+00	4585863	NT	Homo sapiens phosphodiesterase 6A, cGMP-specific, rod, alpha (PDE6A), mRNA
2060	14792	27517	0.97	0.0E+00	Z42396.1	EST_HUMAN	HSC01C021 normalized Infant brain cDNA Homo sapiens cDNA clone c-0c02

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
2062	14794		1.78	0.0E+00	A1244247.1	EST_HUMAN	qy60f08.x1 NCI_CGAP_U12 Homo sapiens cDNA clone IMAGE:1968871 3' similar to contains Alu repetitive element;
2067	14799	27526	3.48	0.0E+00	BE877225.1	EST_HUMAN	601485146F1 NIH_MGC_69 Homo sapiens cDNA clone IMAGE:3887747 5'
2069	14801	27528	1.48	0.0E+00	BF315325.1	EST_HUMAN	601902604F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:4135320 5'
2069	14801	27529	1.48	0.0E+00	BF315325.1	EST_HUMAN	601902604F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:4135320 5'
2072	14804	27532	3.07	0.0E+00	BE697125.1	EST_HUMAN	RC3-CT0413-270700-022-d10 CT0413 Homo sapiens cDNA
2072	14804	27533	3.07	0.0E+00	BE697125.1	EST_HUMAN	RC3-CT0413-270700-022-d10 CT0413 Homo sapiens cDNA
2080	14812	27544	3.71	0.0E+00	L00620.1	NT	Human plasma membrane calcium ATPase isoform 2 (APT2B2) mRNA, complete cds
2080	14812	27545	3.71	0.0E+00	L00620.1	NT	Human plasma membrane calcium ATPase isoform 2 (APT2B2) mRNA, complete cds
2085	14817	27549	1.38	0.0E+00	4758489	NT	Homo sapiens GTP binding protein 1 (GTPBP1) mRNA
2107	14838		2.06	0.0E+00	BE767864.1	EST_HUMAN	QV1-GN0065-140800-318-c10 GN0065 Homo sapiens cDNA
2108	14839		1.59	0.0E+00	AF018963.1	NT	Homo sapiens X-linked juvenile retinoschisis protein (XLR51) gene, exon 6 and complete cds
2110	14841	27572	3.76	0.0E+00	BF027562.1	EST_HUMAN	601872066F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:3954785 5'
2111	14842	27573	1.03	0.0E+00	BE072624.1	EST_HUMAN	PMD-BT0547-210300-004-F04 BT0547 Homo sapiens cDNA
2113	14844	27574	1.06	0.0E+00	AF240786.1	NT	Homo sapiens glutathione S-transferase theta 2 (GSTT2) and glutathione S-transferase theta 1 (GSTT1) genes, complete cds
2116	14847	27576	1.3	0.0E+00	AW752708.1	EST_HUMAN	IL3-CT0219-271099-022-G10 CT0219 Homo sapiens cDNA
2117	14848	27577	1.47	0.0E+00	L76627.1	NT	Homo sapiens metabotropic glutamate receptor 1 alpha (mGluR1alpha) mRNA, complete cds
2119	14850	27579	6.39	0.0E+00	A1904640.1	EST_HUMAN	QV-BT065-020399-092 BT065 Homo sapiens cDNA
2119	14850	27580	6.39	0.0E+00	A1904640.1	EST_HUMAN	QV-BT065-020399-092 BT065 Homo sapiens cDNA
2153	14883		1.05	0.0E+00	7657252	NT	Homo sapiens potassium large conductance calcium-activated channel, subfamily M, beta member 3-like (KCNNMB3L), mRNA
2179	14908		1.22	0.0E+00	L14787.1	NT	Human DNA-binding protein mRNA, 3' end
2183	14912	27644	1.06	0.0E+00	BE274696.1	EST_HUMAN	601122338F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:3346688 5'
2185	14914	27647	7.59	0.0E+00	AV738288.1	EST_HUMAN	AV738288 CB Homo sapiens cDNA clone CBNBDE08 5'
2185	14914	27648	7.59	0.0E+00	AV738288.1	EST_HUMAN	AV738288 CB Homo sapiens cDNA clone CBNBDE08 5'
2187	14916	27650	1.4	0.0E+00	AA931691.1	EST_HUMAN	6032501.s1 NCI_CGAP_Lu5 Homo sapiens cDNA clone CBNBDE08 5'
2191	14920	27654	5.68	0.0E+00	BF344434.1	EST_HUMAN	602014829F1 NCI_CGAP_Bm84 Homo sapiens cDNA clone IMAGE:1567896 3'
2192	14921	27655	12.14	0.0E+00	BE748899.1	EST_HUMAN	601572186T1 NIH_MGC_55 Homo sapiens cDNA clone IMAGE:4150734 5'
2196	14925	27659	3.55	0.0E+00	BF377897.1	EST_HUMAN	CM1-TN0141-250900-439-b08 TN0141 Homo sapiens cDNA
2196	14925	27660	3.55	0.0E+00	BF377897.1	EST_HUMAN	CM1-TN0141-250900-439-b08 TN0141 Homo sapiens cDNA
2200	15588	27665	2.04	0.0E+00	BF313617.1	EST_HUMAN	601900281F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:4129622 5'
2203	14931	27668	1.93	0.0E+00	BE018750.1	EST_HUMAN	bb84602.y1 NIH_MGC_10 Homo sapiens cDNA clone IMAGE:3049082 5' similar to TR:Q15170 Q15170 TRANSCRIPTION FACTOR S-II-RELATED PROTEIN;

Table 4

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
2204	14932	27689	1.55	0.0E+00	AA042813.1	EST_HUMAN	zk53c07.s1 Soares_pregnant_uterus_NbHPU Homo sapiens cDNA clone IMAGE:486540 3' similar to gb:X65857_cds1 OLFACTORY RECEPTOR-LIKE PROTEIN HGMP07E (HUMAN);
2204	14932	27670	1.55	0.0E+00	AA042813.1	EST_HUMAN	zk53c07.s1 Soares_pregnant_uterus_NbHPU Homo sapiens cDNA clone IMAGE:486540 3' similar to gb:X65857_cds1 OLFACTORY RECEPTOR-LIKE PROTEIN HGMP07E (HUMAN);
2212	14940	27678	3.37	0.0E+00	AL163204.2	NT	Homo sapiens chromosome 21 segment HS21C004
2212	14940	27679	3.37	0.0E+00	AL163204.2	NT	Homo sapiens chromosome 21 segment HS21C004
2213	14941	27680	2.3	0.0E+00	7662401	NT	Homo sapiens KIAA0952 protein (KIAA0952), mRNA
2213	14941	27681	2.3	0.0E+00	7662401	NT	Homo sapiens KIAA0952 protein (KIAA0952), mRNA
2218	14946		1.37	0.0E+00	U36264.1	NT	Human beta-prime-adaplin (BAM22) gene, exon 16
2236	14964	27704	5.71	0.0E+00	4557558	NT	Homo sapiens E1A binding protein p300 (EP300) mRNA
2243	14971	27709	2.03	0.0E+00	7662401	NT	Homo sapiens KIAA0952 protein (KIAA0952), mRNA
2250	14978	27717	1.71	0.0E+00	BE895281.1	EST_HUMAN	601433525F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3918607 5'
2253	14981	27720	1.27	0.0E+00	BE905563.1	EST_HUMAN	601495208F1 NIH_MGC_70 Homo sapiens cDNA clone IMAGE:3897457 5'
2253	14981	27721	1.27	0.0E+00	BE905563.1	EST_HUMAN	601495208F1 NIH_MGC_70 Homo sapiens cDNA clone IMAGE:3897457 5'
2256	14983	27723	2.35	0.0E+00	AB037784.1	NT	Homo sapiens mRNA for KIAA1363 protein, partial cds
2298	15024	27759	4.02	0.0E+00	11545748	NT	Homo sapiens differentially expressed in FDCP (mouse homolog) 6 (DEF6), mRNA
2299	15024	27760	4.02	0.0E+00	11545748	NT	Homo sapiens differentially expressed in FDCP (mouse homolog) 6 (DEF6), mRNA
2300	15025	27761	1.87	0.0E+00	AI078404.1	EST_HUMAN	oz09c07.x1 Soares_fetal_liver_spleen_1NFLS_S1 Homo sapiens cDNA clone IMAGE:1674828 3'
2302	15027	27763	2.33	0.0E+00	AA429001.1	EST_HUMAN	zv78a11.r1 Soares_fetal_liver_spleen_1NFLS_S1 Homo sapiens cDNA clone IMAGE:1674828 3'
2302	15027	27764	2.33	0.0E+00	AA429001.1	EST_HUMAN	zv78a11.r1 Soares_fetal_liver_spleen_1NFLS_S1 Homo sapiens cDNA clone IMAGE:1674828 3'
2304	15029	27766	1.75	0.0E+00	BF347039.1	EST_HUMAN	802021848F1 NCI_CGAP_Brm67 Homo sapiens cDNA clone IMAGE:4157339 5'
2309	15034	27772	1.52	0.0E+00	L02840.1	NT	Homo sapiens potassium channel Kv2.1 mRNA, complete cds
2310	15035	27773	1.61	0.0E+00	AB020717.1	NT	Homo sapiens mRNA for KIAA0910 protein, partial cds
2310	15035	27774	1.61	0.0E+00	AB020717.1	NT	Homo sapiens mRNA for KIAA0910 protein, partial cds
2311	15036	27775	1.39	0.0E+00	6325466	NT	Homo sapiens flavin containing monooxygenase 3 (FMO3), mRNA
2317	15042	27780	1.17	0.0E+00	BE876095.1	EST_HUMAN	7122a02.x1 NCI_CGAP_GLL1 Homo sapiens cDNA clone IMAGE:3295370 3' similar to TR:O94939 O94939 KIAA0957 PROTEIN;
2320	15045	27782	4.73	0.0E+00	AF044571.1	NT	Homo sapiens phosphatase kinase alpha subunit (PHKA2) gene, exon 32
2321	15046	27783	1.9	0.0E+00	AI625542.1	EST_HUMAN	y67c08.x1 NCI_CGAP_Uj2 Homo sapiens cDNA clone IMAGE:2283182 3'
2325	15050	27785	1.88	0.0E+00	7662401	NT	Homo sapiens KIAA0952 protein (KIAA0952), mRNA
2325	15050	27786	1.88	0.0E+00	7662401	NT	Homo sapiens KIAA0952 protein (KIAA0952), mRNA
2328	15053	27789	1.95	0.0E+00	5803178	NT	Homo sapiens sperm specific antigen 2 (SSFA2), mRNA
2328	15053	27790	1.95	0.0E+00	5803178	NT	Homo sapiens sperm specific antigen 2 (SSFA2), mRNA
2334	15058	27793	1.24	0.0E+00	7662007	NT	Homo sapiens KIAA0218 gene product (KIAA0218), mRNA

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
2334	15058	27794	1.24	0.0E+00	7862007	NT	Homo sapiens KIAA0218 gene product (KIAA0218), mRNA
2348	15071	27807	3.2	0.0E+00	5174878	NT	Homo sapiens signal regulatory protein, beta, 1 (SIRP-BETA-1) mRNA
2352	15074	27811	2.39	0.0E+00	AU131142.1	EST_HUMAN	AU131142 NT2RP3 Homo sapiens cDNA clone NT2RP3002084 5'
2353	15075		4.31	0.0E+00	BE794028.1	EST_HUMAN	601588843F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3941003 5'
2354	15076	27812	1.51	0.0E+00	AW867076.1	EST_HUMAN	MR1-SN0033-120400-002-a04 SN0033 Homo sapiens cDNA
2355	15077	27813	2.99	0.0E+00	7862017	NT	Homo sapiens KIAA0244 protein (KIAA0244), mRNA
2356	15078	27814	2.03	0.0E+00	4758497	NT	Homo sapiens hexose-6-phosphate dehydrogenase (glucose 1-dehydrogenase) (H6PD), mRNA
2356	15078	27815	2.03	0.0E+00	4758497	NT	Homo sapiens hexose-6-phosphate dehydrogenase (glucose 1-dehydrogenase) (H6PD), mRNA
2357	15079		5.25	0.0E+00	AF280107.1	NT	Homo sapiens cytochrome P450 polypeptide 43 (CYP3A43) gene, partial cds; cytochrome P450 polypeptide 4 (CYP3A4) and cytochrome P450 polypeptide 7 (CYP3A7) genes, complete cds; and cytochrome P450 polypeptide 5 (CYP3A5) gene, partial cds
2359	15081	27817	7.98	0.0E+00	AU118082.1	EST_HUMAN	AU118082 HEMBA1 Homo sapiens cDNA clone HEMBA1002839 5'
2359	15081	27818	7.98	0.0E+00	AU118082.1	EST_HUMAN	AU118082 HEMBA1 Homo sapiens cDNA clone HEMBA1002839 5'
2359	15081	27819	7.98	0.0E+00	AU118082.1	EST_HUMAN	AU118082 HEMBA1 Homo sapiens cDNA clone HEMBA1002839 5'
2360	15082	27820	0.98	0.0E+00	8923099	NT	Homo sapiens hypothetical protein FLJ20081 (FLJ20081), mRNA
2377	15099		0.91	0.0E+00	BE814424.1	EST_HUMAN	MR0-BN0070-090600-029-d12 BN0070 Homo sapiens cDNA
2415	15136	27872	1.06	0.0E+00	AU119582.1	EST_HUMAN	AU119582 HEMBA1 Homo sapiens cDNA clone HEMBA1006155 5'
2416	15137		3.74	0.0E+00	A1042035.1	EST_HUMAN	α6b02.x1 Soares, NHMPu, S1 Homo sapiens cDNA clone IMAGE:1660683 3' similar to TR:008662
2417	15138	27873	0.98	0.0E+00	8923620	NT	008662 230KDA PHOSPHATIDYLINOSITOL 4-KINASE
2420	15141		4.44	0.0E+00	BE895605.1	EST_HUMAN	Homo sapiens hypothetical protein FLJ20693 (FLJ20693), mRNA
2424	15145	27878	1	0.0E+00	BE937632.1	EST_HUMAN	601432608F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3918168 5'
2433	15154		0.98	0.0E+00	AB005622.1	EST_HUMAN	MR1-TN0021-280800-001-H08 TN0021 Homo sapiens cDNA
2437	15157	27892	4.5	0.0E+00	6006002	NT	AB005622 HeLa cDNA (T.Noma) Homo sapiens cDNA similar to adenylylate kinase isozyme 2
2441	15160	27898	2.09	0.0E+00	D85608.1	NT	Homo sapiens glutamate receptor, ionotropic, N-methyl D-aspartate 2A (GRIN2A) mRNA
2441	15160	27897	2.09	0.0E+00	D85608.1	NT	Homo sapiens gene for cholecystokinin type-A receptor, complete cds
2449	15168	27906	1.91	0.0E+00	AF106275.1	NT	Homo sapiens gene for cholecystokinin type-A receptor, complete cds
2454	15172	27911	1.22	0.0E+00	BF345274.1	EST_HUMAN	Homo sapiens immunoglobulin-like transcript 1c variant 4 (ILT1c) gene, exon 6
2461	15179	27919	4.45	0.0E+00	5729777	NT	602018058F1 NCI CGAP_Brn67 Homo sapiens cDNA clone IMAGE:4153670 5'
2465	15183	27922	1.24	0.0E+00	BE831003.1	EST_HUMAN	Homo sapiens collagen, type XII, alpha 1 (COL12A1), mRNA
2465	15183	27923	1.24	0.0E+00	BE831003.1	EST_HUMAN	CM0-MT0033-150600-428-h11 MT0033 Homo sapiens cDNA
2470	15188	27927	0.93	0.0E+00	U13666.1	NT	CM0-MT0033-150600-428-h11 MT0033 Homo sapiens cDNA
2470	15188	27928	0.93	0.0E+00	U13666.1	NT	Human G protein-coupled receptor (GPR1) gene, complete cds
2471	15189	27929	2.98	0.0E+00	BF569144.1	EST_HUMAN	Human G protein-coupled receptor (GPR1) gene, complete cds
2471	15189	27929	2.98	0.0E+00	BF569144.1	EST_HUMAN	60218458T1 NIH_MGC_42 Homo sapiens cDNA clone IMAGE:4300383 3'

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
2482	15200	27940	3.34	0.0E+00	AW466922.1	EST_HUMAN	ha04h04.x1 NCI_CGAP_Kid12 Homo sapiens cDNA clone IMAGE:2872759 3'
2484	15202	27941	2.99	0.0E+00	AW501010.1	EST_HUMAN	UI-HF-BP0p-ais-c-07-0-UI.r1 NIH_MGC_51 Homo sapiens cDNA clone IMAGE:3072780 5'
2488	15215	27958	0.91	0.0E+00	5453986	NT	Homo sapiens protein kinase, AMP-activated, alpha 2 catalytic subunit (PRKAA2) mRNA
2498	15215	27959	0.91	0.0E+00	5453985	NT	Homo sapiens protein kinase, AMP-activated, alpha 2 catalytic subunit (PRKAA2) mRNA
2509	15226		1.66	0.0E+00	AW813853.1	EST_HUMAN	RC3-ST0197-300300-Q16-c04 ST0197 Homo sapiens cDNA
2514	15231	27971	5.22	0.0E+00	BE796542.1	EST_HUMAN	601592530F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3946518 5'
2515	14688	27983	1.4	0.0E+00	7657038	NT	Homo sapiens death receptor 6 (DR6), mRNA
2516	15232	27972	1.48	0.0E+00	BF509482.1	EST_HUMAN	UI-H-B14-a02-b-08-0-UI.s1 NCI_CGAP_Sub8 Homo sapiens cDNA clone IMAGE:3086535 3'
2518	15234	27974	1.83	0.0E+00	Z32684.2	NT	Homo sapiens mRNA for membrane transport protein (XK gene)
2520	15236		3.28	0.0E+00	5453871	NT	Homo sapiens platelet-derived growth factor receptor-like (PDGFRL) mRNA
2522	15238	27977	1.3	0.0E+00	BE910378.1	EST_HUMAN	6015033356F1 NIH_MGC_70 Homo sapiens cDNA clone IMAGE:3905148 5'
2523	15239	27978	1.96	0.0E+00	7657468	NT	Homo sapiens similar to rat integral membrane glycoprotein POM121 (POM121L1), mRNA
2524	15240	27979	2.01	0.0E+00	8923340	NT	Homo sapiens hypothetical protein FLJ20366 (FLJ20366), mRNA
2525	15241	27980	2.21	0.0E+00	U92239.1	NT	Human Sec62 (Sec62) mRNA, complete cds
2526	15246	27984	1.44	0.0E+00	BE886490.1	EST_HUMAN	601508211F1 NIH_MGC_71 Homo sapiens cDNA clone IMAGE:3909866 5'
2534	15249	27989	5.16	0.0E+00	BE875511.1	EST_HUMAN	601489241F1 NIH_MGC_69 Homo sapiens cDNA clone IMAGE:3891371 5'
2534	15249	27990	5.16	0.0E+00	BE875511.1	EST_HUMAN	601489241F1 NIH_MGC_69 Homo sapiens cDNA clone IMAGE:3891371 5'
2536	15251	27993	1.19	0.0E+00	AF245505.1	NT	Homo sapiens adican mRNA, complete cds
2554	15269	28002	1.2	0.0E+00	BE536921.1	EST_HUMAN	601064738F1 NIH_MGC_10 Homo sapiens cDNA clone IMAGE:3451161 5'
2561	15275	28012	2.97	0.0E+00	AU143277.1	EST_HUMAN	AU143277 Y79AA1 Homo sapiens cDNA clone Y79AA1001673 5'
2561	15275	28013	2.97	0.0E+00	AU143277.1	EST_HUMAN	AU143277 Y79AA1 Homo sapiens cDNA clone Y79AA1001673 5'
2562	15276	28014	1.8	0.0E+00	BE292896.1	EST_HUMAN	601105312F1 NIH_MGC_15 Homo sapiens cDNA clone IMAGE:2987955 5'
2562	15276	28015	1.8	0.0E+00	BE292896.1	EST_HUMAN	601105312F1 NIH_MGC_15 Homo sapiens cDNA clone IMAGE:2987955 5'
2563	15277	28016	1.07	0.0E+00	BF223041.1	EST_HUMAN	7q27h12.x1 NCI_CGAP_GC6 Homo sapiens cDNA clone IMAGE:3 similar to TR:O00246 O00246
2566	15280	28018	7.94	0.0E+00	AF245505.1	NT	HYPOTHETICAL 9.3 KD PROTEIN :
2569	15303	28039	2.22	0.0E+00	BE296613.1	EST_HUMAN	Homo sapiens adican mRNA, complete cds
2606	15531	28060	2.13	0.0E+00	AB037836.1	NT	Homo sapiens mRNA for KIAA1415 protein, partial cds
2606	15531	28061	2.13	0.0E+00	AB037836.1	NT	Homo sapiens mRNA for KIAA1415 protein, partial cds
2607	15319		2.47	0.0E+00	BF513835.1	EST_HUMAN	UI-H-BW1-emp-f-12-0-UI.s1 NCI_CGAP_Sub7 Homo sapiens cDNA clone IMAGE:3070631 3'
2611	15323	28065	1.36	0.0E+00	BF672818.1	EST_HUMAN	602152653F1 NIH_MGC_81 Homo sapiens cDNA clone IMAGE:4263612 5'
2615	15326	28069	1.83	0.0E+00	BF204131.1	EST_HUMAN	601869073F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:4111411 5'
2615	15326	28070	1.83	0.0E+00	BF204131.1	EST_HUMAN	601869073F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:4111411 5'

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Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
2618	15329	28072	2.08	0.0E+00	A1571737.1	EST_HUMAN	tn19b08.x1 NCJ_CGAP_Bm25 Homo sapiens cDNA clone IMAGE:2168055 3' similar to gb.L20977 CALCIUM-TRANSPORTING ATPASE PLASMA MEMBRANE, BRAIN ISOFORM 2 (HUMAN);
2619	15330	28073		0.0E+00			Homo sapiens TATA box binding protein (TBP)-associated factor, RNA polymerase II, 1, 28kD (TAF21)
2621	15333	28077	2.19	0.0E+00	5032150	NT	mRNA
2622	15334	28078	4.95	0.0E+00	AB037859.1	NT	Homo sapiens mRNA for KIAA1438 protein, partial cds
2622	15334	28078	1.02	0.0E+00	BE795445.1	EST_HUMAN	601590108F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3944304 5'
2622	15334	28079	1.02	0.0E+00	BE795445.1	EST_HUMAN	601590108F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3944304 5'
2625	15337	28080	2.55	0.0E+00	BE293328.1	EST_HUMAN	601143722F1 NIH_MGC_15 Homo sapiens cDNA clone IMAGE:3051389 5'
2625	15337	28080	2.55	0.0E+00	BE293328.1	EST_HUMAN	601143722F1 NIH_MGC_15 Homo sapiens cDNA clone IMAGE:3051389 5'
2632	15344		4.92	0.0E+00	BE792472.1	EST_HUMAN	601584930F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3939222 5'
2641	15352	28096	1.51	0.0E+00	4504686	NT	Homo sapiens IMP (inosine monophosphate) dehydrogenase 1 (IMPDH1) mRNA
2651	15361		1.27	0.0E+00	U78027.1	NT	Homo sapiens Bruton's tyrosine kinase (BTK), alpha-D-galactosidase A (GLA), L44-like ribosomal protein (L44L) and FTP3 (FTP3) genes, complete cds
2652	15362	28103	6.55	0.0E+00	AF173227.1	NT	Homo sapiens guanylate cyclase-activating protein 2 (GUCA1B) gene, exon 1
2658	15368	28106	1.22	0.0E+00	AU133385.1	EST_HUMAN	AU133385 NT2RP4 Homo sapiens cDNA clone NT2RP4001964 5'
2659	15369	28107	1.08	0.0E+00	M69225.1	NT	Human bulbous pemphigoid antigen (BPAG1) mRNA, complete cds
2661	15371	28109	2.22	0.0E+00	AU130403.1	EST_HUMAN	AU130403 NT2RP3 Homo sapiens cDNA clone NT2RP3000779 5'
2661	15371	28110	2.22	0.0E+00	AU130403.1	EST_HUMAN	AU130403 NT2RP3 Homo sapiens cDNA clone NT2RP3000779 5'
2663	15373	28112	1.71	0.0E+00	AW887015.1	EST_HUMAN	RC1-OT0086-220300-011-d07 OT0086 Homo sapiens cDNA
2666	15376	28115	1.25	0.0E+00	BF000018.1	EST_HUMAN	7h15h05.x1 NCJ_CGAP_Corf6 Homo sapiens cDNA clone IMAGE:3316089 3'
2667	15377	28116	4.37	0.0E+00	BE383165.1	EST_HUMAN	601298714F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:3628923 5'
2668	15378		2.57	0.0E+00	BE531263.1	EST_HUMAN	601278373F1 NIH_MGC_39 Homo sapiens cDNA clone IMAGE:3610267 5'
2725	15432		4.21	0.0E+00	AA316723.1	EST_HUMAN	EST188414 HCC cell line (metastasis to liver in mouse) II Homo sapiens cDNA 5' end similar to ribosomal protein L29
2726	15433	28169	5.57	0.0E+00	BE794884.1	EST_HUMAN	601589625F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3943561 5'
2732	15439	28177	3.83	0.0E+00	U36253.1	NT	Human beta-prime-adaptin (BAM22) gene, exon 5
2733	15440	28178	1.33	0.0E+00	7669517	NT	Homo sapiens neuropilin 1 (NRG1), transcript variant SMDF, mRNA
2734	15441	28179	1.78	0.0E+00	AF110763.1	NT	Homo sapiens skeletal muscle LIM-protein 1 (FHL1) gene, complete cds
2736	15443	28181	1.27	0.0E+00	AB051826.1	NT	Homo sapiens hG28K mRNA for GTP-binding protein like 1, complete cds
2742	15448	28187	7.77	0.0E+00	BE796376.1	EST_HUMAN	601591991F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3945983 5'
2745	15604	28181	3.48	0.0E+00	BE563433.1	EST_HUMAN	601335485F1 NIH_MGC_39 Homo sapiens cDNA clone IMAGE:3689564 5'
2746	15451		1.16	0.0E+00	AV721647.1	EST_HUMAN	AV721647 HTB Homo sapiens cDNA clone HTBBYE09 5'
2748	15453	28194	2.25	0.0E+00	5174486	NT	Homo sapiens spermatogenesis associated PD1 (KIAA0757) mRNA
2748	15453	28195	2.25	0.0E+00	5174486	NT	Homo sapiens spermatogenesis associated PD1 (KIAA0757) mRNA
2749	15454	28196	1.21	0.0E+00	8923441	NT	Homo sapiens hypothetical protein FLJ20477 (FLJ20477), mRNA

Single Exon Probes Expressed in Brain

Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
2749	15454	28197	1.21	0.0E+00	8923441	NT	Homo sapiens hypothetical protein FLJ20477 (FLJ20477), mRNA
2750	15455	28198	2.5	0.0E+00	AF280195.1	NT	Homo sapiens hypertension-related calcium-regulated gene mRNA, complete cds
2751	15456		13.89	0.0E+00	AV651066.1	EST_HUMAN	AV651068 GLC Homo sapiens cDNA clone GLCOLD07.3
2752	15457	28199	3.13	0.0E+00	BF377897.1	EST_HUMAN	CM1-TN0141-250900-439-b08 TN0141 Homo sapiens cDNA
2753	15457	28200	3.13	0.0E+00	BF377897.1	EST_HUMAN	CM1-TN0141-250900-439-b08 TN0141 Homo sapiens cDNA
2756	15461	28203	33.8	0.0E+00	4757963	NT	Homo sapiens cerebellar degeneration-related protein (34kD) (CDR1) mRNA
2756	15461	28204	33.8	0.0E+00	4757963	NT	Homo sapiens cerebellar degeneration-related protein (34kD) (CDR1) mRNA
2760	15465	28209	2.58	0.0E+00	BE747193.1	EST_HUMAN	601580903F1 NIH_MGC 9 Homo sapiens cDNA clone IMAGE:3929472.5
2771	15476		1.15	0.0E+00	AL163201.2	NT	Homo sapiens chromosome 21 segment HS21C001
2772	15477	28219	3.38	0.0E+00	BF614110.1	EST_HUMAN	U1-HBW1-armw-e-07-UJL1 NCI_CGAP_Sub7 Homo sapiens cDNA clone IMAGE:3071340.3
2778	15483		0.99	0.0E+00	4503098	NT	Homo sapiens chondroitin sulfate proteoglycan 4 (melanoma-associated) (CSPG4), mRNA
2784	15489	28227	2.1	0.0E+00	7705275	NT	Homo sapiens angiotensin-3 (ANG-3), mRNA
2784	15489	28228	2.1	0.0E+00	7705275	NT	Homo sapiens angiotensin-3 (ANG-3), mRNA
2785	15490	28228	4.87	0.0E+00	BF677694.1	EST_HUMAN	602085579F1 NIH_MGC_83 Homo sapiens cDNA clone IMAGE:4249915.5
2791	15496	28237	1.75	0.0E+00	7427522	NT	Homo sapiens protein tyrosine phosphatase, receptor type, T (PTPR T), mRNA
2794	15499	28239	13.56	0.0E+00	AV725534.1	EST_HUMAN	AV725534 HTG Homo sapiens cDNA clone HTCCCA03.5
2794	15499	28240	13.56	0.0E+00	AV725534.1	EST_HUMAN	AV725534 HTG Homo sapiens cDNA clone HTCCCA03.5
2796	15501		7.61	0.0E+00	AI879163.1	EST_HUMAN	au55d04.y1 Schneider fetal brain 00004 Homo sapiens cDNA clone IMAGE:2518663.5 similar to
2799	15504	28245	5.41	0.0E+00	BF530661.1	EST_HUMAN	SW:R13A_HUMAN P40429 60S RIBOSOMAL PROTEIN L13A.1
2800	15505	28246	5.55	0.0E+00	BE872768.1	EST_HUMAN	602071957F1 NCI_CGAP_Bm67 Homo sapiens cDNA clone IMAGE:4214679.5
2802	15507	28247	1.6	0.0E+00	AU131494.1	EST_HUMAN	601450912F1 NIH_MGC_65 Homo sapiens cDNA clone IMAGE:3854642.5
2802	15507	28248	1.8	0.0E+00	AU131494.1	EST_HUMAN	AU131494 NT2RP3 Homo sapiens cDNA clone NT2RP3002872.5
2803	15508	28249	20.25	0.0E+00	BE300344.1	EST_HUMAN	AU131494 NT2RP3 Homo sapiens cDNA clone NT2RP3002872.5
2803	15508	28250	20.25	0.0E+00	BE300344.1	EST_HUMAN	600944794F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:2960806.5
2809	12995	25634	4.22	0.0E+00	BE300344.1	EST_HUMAN	600944794F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:2960806.5
2812	15515		4.35	0.0E+00	S76830.1	NT	glycoprotein D-Duffy group antigen [human, blood, Genomic DNA, 3088 nt]
2818	13491	26144	8.39	0.0E+00	AF264750.1	NT	Homo sapiens BTROP2 mRNA for F-box and WD-repeats protein isoform C, complete cds
2818	13491	26145	8.39	0.0E+00	AF264750.1	NT	Homo sapiens ALR-like protein mRNA, partial cds
2822	13776	26436	3.52	0.0E+00	4503202	NT	Homo sapiens ALR-like protein mRNA, partial cds
2822	13776	26437	3.52	0.0E+00	4503202	NT	Homo sapiens cytochrome P450, subfamily 1 (dioxin-inducible), polypeptide 1 (glaucoma 3, primary infantile) (CYP1B1) mRNA
2840	15608	28258	3.52	0.0E+00	X65980.1	NT	Homo sapiens cytochrome P450, subfamily 1 (dioxin-inducible), polypeptide 1 (glaucoma 3, primary infantile) (CYP1B1) mRNA
							H.sapiens serine hydroxymethyltransferase pseudogene

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
2841	15609		1.34	0.0E+00	AF068624.1	NT	Homo sapiens 5-aminolevulinic synthase 2 (ALAS2) gene, complete cds
2843	15611		1.22	0.0E+00	AB040960.1	NT	Homo sapiens mRNA for KIAA1527 protein, partial cds
2849	15617	28263	2.61	0.0E+00	AL163201.2	NT	Homo sapiens chromosome 21 segment HS21C001
2852	15620	28266	2.63	0.0E+00	M91803.1	NT	Human sodium channel mRNA
2854	15622	28267	1.94	0.0E+00	M80902.1	NT	Human AHNAC nucleoprotein mRNA, 5' end
2857	15625	28269	1.28	0.0E+00	BE154604.1	EST_HUMAN	PM0-HT0343-281298-003-e02 HT0343 Homo sapiens cDNA
2857	15625	28270	1.29	0.0E+00	BE154604.1	EST_HUMAN	PM0-HT0343-281299-003-e02 HT0343 Homo sapiens cDNA
2859	15627		1.18	0.0E+00	X73428.1	NT	H. sapiens lcl3 gene for HLH type transcription factor
2860	15628		2.59	0.0E+00	AL163268.2	NT	Homo sapiens chromosome 21 segment HS21C068
2861	15629	28272	1.03	0.0E+00	7019584	NT	Homo sapiens zinc finger protein 221 (ZNF221), mRNA
2861	15629	28273	1.03	0.0E+00	7019584	NT	Homo sapiens zinc finger protein 221 (ZNF221), mRNA
2861	15628	28274	1.03	0.0E+00	7019584	NT	Homo sapiens zinc finger protein 221 (ZNF221), mRNA
2866	15633	28277	18.48	0.0E+00	D50657.1	NT	Homo sapiens gamma-cytoplasmic actin (ACTGP3) pseudogene
2866	15633	28278	18.48	0.0E+00	D50657.1	NT	Homo sapiens gamma-cytoplasmic actin (ACTGP3) pseudogene
2869	15636	28281	1.69	0.0E+00	AL096857.1	NT	Novel human mRNA from chromosome 1, which has similarities to BAT2 genes
2870	15637		7.2	0.0E+00	Y10688.1	NT	H. sapiens mRNA for nuclear DNA helicase II
2871	15638		1.42	0.0E+00	AF152303.1	NT	Homo sapiens protocadherin alpha C1 (PODH-alpha-C1) mRNA, complete cds
2872	15639	28282	47.87	0.0E+00	4503470	NT	Homo sapiens eukaryotic translation elongation factor 1 alpha 1 (EEF1A1) mRNA
2872	15639	28283	47.87	0.0E+00	4503470	NT	Homo sapiens eukaryotic translation elongation factor 1 alpha 1 (EEF1A1) mRNA
2882	15649	28292	2.35	0.0E+00	4507280	NT	Homo sapiens serine/threonine kinase 9 (STK9) mRNA
2885	15652	28296	1.06	0.0E+00	AL047589.1	EST_HUMAN	DKFZp586G0621.1 586 (synonym: hule1) Homo sapiens cDNA clone DKFZp586G0621
2886	15653	28297	0.97	0.0E+00	7661863	NT	Homo sapiens KIAA0054 gene product; Helicase (KIAA0054), mRNA
2886	15653	28298	0.97	0.0E+00	7661863	NT	Homo sapiens KIAA0054 gene product; Helicase (KIAA0054), mRNA
2887	15654		2.96	0.0E+00	4503098	NT	Homo sapiens chondroitin sulfate proteoglycan 4 (melanoma-associated) (CSPG4), mRNA
2890	15657	28300	5.46	0.0E+00	BE081896.1	EST_HUMAN	QV2-BT0836-130400-138-h03 BT0836 Homo sapiens cDNA
2890	15657	28301	5.46	0.0E+00	BE081896.1	EST_HUMAN	QV2-BT0836-130400-138-h03 BT0836 Homo sapiens cDNA
2897	15664	28312	2.09	0.0E+00	AL163206.2	NT	Homo sapiens chromosome 21 segment HS21C006
2897	15664	28313	2.09	0.0E+00	AL163206.2	NT	Homo sapiens chromosome 21 segment HS21C006
2905	15671		4.18	0.0E+00	Y19210.1	NT	Homo sapiens hHb5 gene for hair keratin, exons 1 to 9
2907	15673	28321	1.33	0.0E+00	4758279	NT	Homo sapiens Epha4 (EPHA4) mRNA
2908	15674	28322	20.94	0.0E+00	4503470	NT	Homo sapiens eukaryotic translation elongation factor 1 alpha 1 (EEF1A1) mRNA
2908	15675	28323	1.91	0.0E+00	AI561002.1	EST_HUMAN	bt18d07.x1 NCI CGAP Bm25 Homo sapiens cDNA clone IMAGE:2167981 3' similar to TR:O16247 O16247 F44E7.2 PROTEIN.;

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
2909	15675	28324	1.91	0.0E+00	AI561002.1	EST_HUMAN	int18d07.x1 NCI_CGAP_Brn25 Homo sapiens cDNA clone IMAGE:2167981 3' similar to TR:O16247
2911	15677	28326	1.63	0.0E+00	P52740	SWISSPROT	O16247 F44E7.2 PROTEIN. ;
2912	15678	28327	2.01	0.0E+00	AF152338.1	NT	ZINC FINGER PROTEIN 132
2928	15694	28339	1.92	0.0E+00	AB033093.1	NT	Homo sapiens protocadherin gamma C4 (PCDH-gamma-C4) mRNA, complete cds
2928	15694	28340	1.92	0.0E+00	AB033093.1	NT	Homo sapiens mRNA for KIAA1267 protein, partial cds
2929	15695	28341	4.56	0.0E+00	AB040941.1	NT	Homo sapiens mRNA for KIAA1267 protein, partial cds
2929	15695	28342	4.56	0.0E+00	AB040941.1	NT	Homo sapiens mRNA for KIAA1508 protein, partial cds
2932	15698	28345	3.58	0.0E+00	7661903	NT	Homo sapiens mRNA for KIAA1508 protein, partial cds
2932	15698	28346	3.58	0.0E+00	7661903	NT	Homo sapiens KIAA0100 gene product (KIAA0100), mRNA
2933	15699	28347	3.21	0.0E+00	5174574	NT	Homo sapiens myeloid/lymphoid or mixed-lineage leukemia (t(11q24) mRNA
2933	15699	28348	3.21	0.0E+00	5174574	NT	Homo sapiens myeloid/lymphoid or mixed-lineage leukemia (t(11q24) mRNA
2938	15703	28352	1.16	0.0E+00	BF110702.1	EST_HUMAN	Homo sapiens myeloid/lymphoid or mixed-lineage leukemia (t(11q24) mRNA
2938	15703	28353	1.16	0.0E+00	BF110702.1	EST_HUMAN	Q9VLN1 CG17293 PROTEIN. ;
2946	15712	28364	2.15	0.0E+00	4505084	NT	Q9VLN1 CG17293 PROTEIN. ;
2946	15712	28365	2.15	0.0E+00	4505084	NT	Homo sapiens melanoma antigen, family B, 4 (MAGEB4), mRNA
2953	15719	28370	1.89	0.0E+00	4758827	NT	Homo sapiens melanoma antigen, family B, 4 (MAGEB4), mRNA
2954	15720		0.96	0.0E+00	X98494.1	NT	Homo sapiens neurexin III (NRXN3) mRNA
2957	15723	28373	2.38	0.0E+00	AB033034.1	NT	H sapiens mRNA for M phase phosphoprotein 10
2958	15724	28374	5.56	0.0E+00	X15309.1	NT	Homo sapiens mRNA for KIAA1208 protein, partial cds
2958	15724	28375	5.56	0.0E+00	X15309.1	NT	H sapiens NF-H gene, exon 4
2958	15725	28376	7.64	0.0E+00	AF106275.1	NT	H sapiens NF-H gene, exon 4
2973	15739		1.13	0.0E+00	AF106275.1	NT	H sapiens immunoglobulin-like transcript 1c variant 4 (ILT1c) gene, exon 6
2980	15746	28394	1.12	0.0E+00	4508118	EST_HUMAN	rf43f09.x1 Scores_batis_NHT Homo sapiens cDNA clone IMAGE:1752809 3'
2981	15747	28395	2.85	0.0E+00	AB004894.1	NT	Homo sapiens prospero-related homeobox 1 (PROX1) mRNA
2991	15757	28404	1.52	0.0E+00	7662273	NT	Homo sapiens mRNA for PKU-alpha, partial cds
2993	15759	28406	3.75	0.0E+00	5729755	NT	Homo sapiens calcium channel, voltage-dependent, gamma subunit 3 (CACNG3), mRNA
2993	15759	28407	3.75	0.0E+00	5729755	NT	Homo sapiens calcium channel, voltage-dependent, gamma subunit 3 (CACNG3), mRNA
2997	15763	28412	1.1	0.0E+00	AB037652.1	NT	Homo sapiens mRNA for KIAA1431 protein, partial cds
3025	15791	28439	1.17	0.0E+00	M74099.1	NT	Human displacement protein (OCAAT) mRNA

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Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
3033	15799	28445	0.71	0.0E+00	4508882	NT	Homo sapiens semenogelin 1 (SEMG1) mRNA
3039	15805		4.62	0.0E+00	AF195953.1	NT	Homo sapiens membrane-bound aminopeptidase P (XNPEP2) gene, complete cds.
3042	15808	28454	3.74	0.0E+00	5579469	NT	Homo sapiens heat shock 70kD protein 1 (HSPA1A), mRNA
3042	15808	28455	3.74	0.0E+00	5579469	NT	Homo sapiens heat shock 70kD protein 1 (HSPA1A), mRNA
3044	15810		6.88	0.0E+00	AL359403.1	NT	isoform 2 of a novel human mRNA from chromosome 22
3049	15815	28460	1.6	0.0E+00	AF017433.1	NT	Homo sapiens putative transcription factor CR63 (CR63) mRNA, partial cds
3052	15818		1.98	0.0E+00	AF198779.1	NT	Homo sapiens transcription factor IGHM enhancer 3, JM11 protein, JM4 protein, JM5 protein, T54 protein, JM10 protein, A4 differentiation-dependent protein, triple LIM domain protein 6, and synaptophysin genes, complete cds; and L-type calcium channel α
3066	15832	28476	1.19	0.0E+00	AF170492.1	NT	Homo sapiens chloride channel CLC4 (CLC4) mRNA, complete cds
3074	15840	28483	2.8	0.0E+00	X03529.1	NT	Human germline gene 16.1 for Ig lambda L-chain C region (IgL-C16.1)
3080	15845		1.54	0.0E+00	AF199356.1	NT	Homo sapiens F-box protein FBL5 (FBL5) mRNA, complete cds
3084	15849	28490	1.72	0.0E+00	AF064589.1	NT	Homo sapiens melanoma-associated antigen (MAGE-C1) gene, complete cds
3104	15869	28509	3.2	0.0E+00	AF265208.1	NT	Homo sapiens SWI-SNF complex protein p270 mRNA, partial cds
3106	15870	28510	7.83	0.0E+00	AF149773.1	NT	Homo sapiens NOD1 protein (NOD1) gene, exons 1, 2, and 3
3110	15875	28514	3.42	0.0E+00	7662139	NT	Homo sapiens KIAA0469 gene product (KIAA0469), mRNA
3111	15876	28515	1.21	0.0E+00	AF042076.1	NT	Homo sapiens olfactory receptor-like protein (OLFRL42B) gene, OLFRL42B-9110 allele, partial cds
3138	15902	28547	3.74	0.0E+00	4826783	NT	Homo sapiens potassium voltage-gated channel, Shab-related subfamily, member 1 (KCNB1) mRNA
3148	15911	28558	26.91	0.0E+00	L20941.1	NT	Human ferritin heavy chain mRNA, complete cds
3151	15914	28559	1.32	0.0E+00	AB011121.1	NT	Homo sapiens mRNA for KIAA0549 protein, partial cds
3151	15914	28560	1.32	0.0E+00	AB011121.1	NT	Homo sapiens mRNA for KIAA0549 protein, partial cds
3158	15921	28567	8.63	0.0E+00	T94870.1	EST_HUMAN	ye32703.s1 Stratiogene lung (#837210) Homo sapiens cDNA clone IMAGE:119453 3' similar to SP:529539
3172	15935	28584	0.98	0.0E+00	BF243336.1	EST_HUMAN	S29639 BASIC PROTEIN, 23K -
3178	15941	28591	4.39	0.0E+00	X98922.1	NT	601878507F1 NIH_MGC_55 Homo sapiens cDNA clone IMAGE:4107433 5'
3178	15941	28592	4.39	0.0E+00	X98922.1	NT	H. sapiens mRNA for gamma-glutamyltransferase
3187	15950	28601	1.31	0.0E+00	4758827	NT	H. sapiens mRNA for gamma-glutamyltransferase
3187	15950	28602	1.31	0.0E+00	4758827	NT	Homo sapiens neurexin III (NRXN3) mRNA
3195	15958	28610	8.46	0.0E+00	4504658	NT	Homo sapiens neurexin III (NRXN3) mRNA
3211	15974	28626	3.25	0.0E+00	M28699.1	NT	Homo sapiens interleukin 1 receptor, type I (IL1R1) mRNA
3214	15977	28628	1.96	0.0E+00	4502098	NT	Homo sapiens nucleolar phosphoprotein B23 (NPM1) mRNA, complete cds
3220	15983	28636	0.85	0.0E+00	4758055	NT	Homo sapiens solute carrier family 25 (mitochondrial carrier; adenine nucleotide translocator), member 5 (SLC25A5), nuclear gene encoding mitochondrial protein, mRNA
							Homo sapiens CREB binding protein (Rubinstein-Taybi syndrome) (CREBBP) mRNA

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
3220	15983	28637	0.85	0.0E+00	4758055	NT	Homo sapiens CREB binding protein (Rubinstein-Taybi syndrome) (CREBBP) mRNA
3222	15985	28638	3.07	0.0E+00	AA774783.1	EST_HUMAN	ae87b11.s1 Striatum schizoid brain S11 Homo sapiens cDNA clone IMAGE:971133 3'
3230	15993	28646	5.43	0.0E+00	AF286598.1	NT	Homo sapiens angiotensin binding protein 1 mRNA, complete cds
3230	15993	28647	5.43	0.0E+00	AF286598.1	NT	Homo sapiens angiotensin binding protein 1 mRNA, complete cds
3242	16004	28653	1.36	0.0E+00	4557590	NT	Homo sapiens fibrillin 1 (Marfan syndrome) (FBN1) mRNA
3248	16010	28661	1	0.0E+00	4507720	NT	Homo sapiens titin (TTN) mRNA
3255	16017		5.8	0.0E+00	M65189.1	NT	Human connexin 43 processed pseudogene
3256	16018	28668	1.26	0.0E+00	AF019413.1	NT	Homo sapiens HLA class II region containing tenascin X (tenascin-X) gene, partial cds: cytochrome P450 21-hydroxylase (CYP21B), complement component C4 (C4B) G11, helicase (SK12W), RD, complement factor B (Bf), and complement component C2 (C2) genes, >
3258	16020	28670	3.96	0.0E+00	AF055084.1	NT	Homo sapiens very large G-protein coupled receptor-1 (VLR1) mRNA, complete cds
3261	16023	28672	1.11	0.0E+00	7662125	NT	Homo sapiens KIAA0440 protein (KIAA0440), mRNA
3261	16023	28673	1.11	0.0E+00	7662125	NT	Homo sapiens KIAA0440 protein (KIAA0440), mRNA
3269	17875	28680	2.09	0.0E+00	4502014	NT	Homo sapiens A kinase (PRKA) anchor protein 1 (AKAP1), mRNA
3269	17875	28681	2.09	0.0E+00	4502014	NT	Homo sapiens A kinase (PRKA) anchor protein 1 (AKAP1), mRNA
3285	16046	28695	2.25	0.0E+00	AF265208.1	NT	Homo sapiens SWI-SNF complex protein p270 mRNA, partial cds
3286	16047	28696	1.17	0.0E+00	8923624	NT	Homo sapiens hypothetical protein FLJ20695 (FLJ20695), mRNA
3297	16059	28708	1.22	0.0E+00	7657038	NT	Homo sapiens death receptor 8 (DR8), mRNA
3300	16062	28710	1.09	0.0E+00	AA994842.1	EST_HUMAN	ou58e08.s1 NCL CGAP_Br2 Homo sapiens cDNA clone IMAGE:1632038 3'
3309	16069	28718	1.18	0.0E+00	4885312	NT	Homo sapiens G protein-coupled receptor 24 (GPR24), mRNA
3318	16078	28728	1.99	0.0E+00	AI689294.1	EST_HUMAN	tr88108.x2 NCL CGAP_Pan1 Homo sapiens cDNA clone IMAGE:222535 3' similar to SW:RL11_RAT
3326	16086	28736	2.33	0.0E+00	AF128893.1	NT	P25121 60S RIBOSOMAL PROTEIN L11; contains Alu repetitive element
3326	16086	28737	2.33	0.0E+00	AF128893.1	NT	Homo sapiens telomerase reverse transcriptase (TERT) gene, exons 1-6
3327	16087	28738	1.22	0.0E+00	7657213	NT	Homo sapiens telomerase reverse transcriptase (TERT) gene, exons 1-6
3327	16087	28739	1.22	0.0E+00	7657213	NT	Homo sapiens hormonally upregulated neu tumor-associated kinase (HUNK), mRNA
3329	16089	28741	1.27	0.0E+00	4502582	NT	Homo sapiens caspase 8, apoptosis-related cysteine protease (CASP8) mRNA
3329	16089	28742	1.27	0.0E+00	4502582	NT	Homo sapiens caspase 8, apoptosis-related cysteine protease (CASP8) mRNA
3333	16093	28745	9.77	0.0E+00	AF111163.1	NT	Homo sapiens pyrin (MEFV) gene, complete cds
3335	16095	28747	1.29	0.0E+00	AB040940.1	NT	Homo sapiens pyrin (MEFV) gene, partial cds
3342	16101	28753	0.84	0.0E+00	BE779039.1	EST_HUMAN	601464965F1 NIH_MGC_67 Homo sapiens cDNA clone IMAGE:3868246 5'
3352	16112	28767	0.72	0.0E+00	AI632569.1	EST_HUMAN	wb10704.x1 NCL CGAP_G08 Homo sapiens cDNA clone IMAGE:2305279 3' similar to TR:Q91929 Q91929
3391	16150	28804	4.44	0.0E+00	AU123664.1	EST_HUMAN	ZINC FINGER PROTEIN ;
							AU123664 NT2RM2 Homo sapiens cDNA clone NT2RM2000735 5'

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
3398	16156	28807	0.95	0.0E+00	7363436	NT	Homo sapiens olfactory receptor, family 10, subfamily C, member 1 (OR10C1), mRNA
3398	16156	28808	0.95	0.0E+00	7363436	NT	Homo sapiens olfactory receptor, family 10, subfamily C, member 1 (OR10C1), mRNA
3401	16159	28810	1.36	0.0E+00	7706239	NT	Homo sapiens neuroblastoma-amplified protein (LOC51594), mRNA
3402	16160	28811	1.42	0.0E+00	AF211189.1	NT	Homo sapiens T-type calcium channel alpha1 subunit Alpha1-a isoform (CACNA11) mRNA, complete cds
3406	16164		0.99	0.0E+00	AW967015.1	EST_HUMAN	MIR1-SN0033-100400-001-c08 SN0033 Homo sapiens cDNA
3418	16175	28824	1.66	0.0E+00	7662401	NT	Homo sapiens KIAA0952 protein (KIAA0952), mRNA
3418	16175	28825	1.66	0.0E+00	7662401	NT	Homo sapiens KIAA0952 protein (KIAA0952), mRNA
3419	16176	28826	1.34	0.0E+00	4502398	NT	Homo sapiens beaded filament structural protein 1, filensin (BFSP1) mRNA
3421	16178	28827	5.37	0.0E+00	5803067	NT	Homo sapiens leukocyte immunoglobulin-like receptor, subfamily A (with TM domain), member 2 (LILRA2), mRNA
3430	15441	28179	1.75	0.0E+00	AF110763.1	NT	Homo sapiens skeletal muscle LIM-protein 1 (FHL-1) gene, complete cds
3435	16191	28840	2.4	0.0E+00	7667038	NT	Homo sapiens death receptor 6 (DR6), mRNA
3438	16194	28844	5.47	0.0E+00	K02380.1	NT	Bacteriophage P1 replication region including repA, parA, and parB genes and IncA, IncB, and IncC
3440	16196	28846	1.5	0.0E+00	7427522	NT	Incompatibility determinants
3448	16204	28853	3.64	0.0E+00	A1935159.1	EST_HUMAN	Homo sapiens protein tyrosine phosphatase, receptor type, I (PTPR1), mRNA
3448	16204	28854	3.64	0.0E+00	A1935159.1	EST_HUMAN	wp14d10.x1 NCL CGAP_Lu19 Homo sapiens cDNA clone IMAGE:2464819 3' similar to TR:O73634 O73634
3452	16208	28859	2.48	0.0E+00	AJ278120.1	NT	NEURAL CELL ADHESION MOLECULE ;
3459	16215	28868	1.82	0.0E+00	6552332	NT	NEURAL CELL ADHESION MOLECULE ;
3459	16215	28869	1.82	0.0E+00	6552332	NT	Homo sapiens mRNA for putative ankyrin-repeat containing protein (ORF1)
3464	16220	28874	1.31	0.0E+00	M14123.1	NT	Homo sapiens v-fos FBJ murine osteosarcoma viral oncogene homolog (FOS), mRNA
3470	16226	28880	5.4	0.0E+00	U43293.1	NT	Homo sapiens v-fos FBJ murine osteosarcoma viral oncogene homolog (FOS), mRNA
3475	16231	28884	1.18	0.0E+00	9558718	NT	Human endogenous retrovirus HERV-K10
3475	16231	28885	1.18	0.0E+00	9558718	NT	Human MDS1A (AML1/MDST fusion) mRNA, partial cds
3479	16235	28890	1.84	0.0E+00	AF045452.1	NT	Homo sapiens hypothetical protein (AF038169), mRNA
3479	16235	28891	1.84	0.0E+00	AF045452.1	NT	Homo sapiens hypothetical protein (AF038169), mRNA
3484	16241	28898	1.12	0.0E+00	AF231922.1	NT	Homo sapiens cell-line KG1 transcriptional regulatory protein p54 mRNA, complete cds
3496	16252	28905	2.21	0.0E+00	BE304791.1	EST_HUMAN	Homo sapiens chromosome 21 unknown mRNA
3496	16252	28906	2.21	0.0E+00	BE304791.1	EST_HUMAN	601143853F1 NIH_MGC_15 Homo sapiens cDNA clone IMAGE:3051373 5'
3499	16255	28909	0.92	0.0E+00	4826795	NT	601143853F1 NIH_MGC_15 Homo sapiens cDNA clone IMAGE:3051373 5'
							Homo sapiens potassium voltage-gated channel, Isk-related family, member 2 (KCNE2) mRNA

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
3504	16260	28914	0.89	0.0E+00	AI384007.1	EST_HUMAN	te35g12.x1 Soares_NhHMPu_S1 Homo sapiens cDNA clone IMAGE:2088742 3' similar to TR:O00498
3507	16263	28917	1.11	0.0E+00	M10976.1	NT	O00498 MYASTHENIA GRAVIS AUTOANTIGEN GRAVIN ;
3529	16285	28940	1.29	0.0E+00	AV701869.1	EST_HUMAN	Human endogenous retroviral DNA (4-1), complete retroviral segment
3530	16286	28941	0.85	0.0E+00	4506884	NT	AV701869 ADB Homo sapiens cDNA clone ADBDAH06 5'
3531	16287		1.74	0.0E+00	AF078868.1	NT	Homo sapiens semenogelin II (SEMG2) mRNA
3539	16295	28945	1.49	0.0E+00	AL133204.1	NT	Homo sapiens homologous yeast-44.2 protein mRNA, complete cds
3542	16297	28948	1.21	0.0E+00	AB040909.1	NT	Novel human gene mapping to chromosome X
3561	16319	28963	1.37	0.0E+00	6997248	NT	Homo sapiens mRNA for KIAA1476 protein, partial cds
3561	16319	28964	1.37	0.0E+00	6997248	NT	Homo sapiens sal (Drosophila)-like 1 (SALL1), mRNA
3562	16317		0.69	0.0E+00	AI081907.1	EST_HUMAN	Homo sapiens sal (Drosophila)-like 1 (SALL1), mRNA
3564	16319	28967	1.04	0.0E+00	6325463	NT	ox77c11.x1 Soares_NhHMPu_S1 Homo sapiens cDNA clone IMAGE:1662356 3' similar to WP:T19B4.4
3568	16324		4.17	0.0E+00	AW852217.1	EST_HUMAN	CE13742 ;
3576	16331		0.78	0.0E+00	AF118846.1	NT	Homo sapiens butyrophilin, subfamily 3, member A3 (BTN3A3), mRNA
3577	16332	28976	8.46	0.0E+00	BF676393.1	EST_HUMAN	QV0-CT0225-230300-169-g01 CT0225 Homo sapiens cDNA
3589	16343	28988	0.9	0.0E+00	AW937977.1	EST_HUMAN	Homo sapiens gamma-glutamylcysteine synthetase (GLCLC) gene, partial cds
3603	16356	28996	0.74	0.0E+00	BF672054.1	EST_HUMAN	602084583F1 NIH_MGC_83 Homo sapiens cDNA clone IMAGE:4248568 5'
3603	16356	28997	0.74	0.0E+00	BF672054.1	EST_HUMAN	QV0-DT0047-170200-123-g01 DT0047 Homo sapiens cDNA
3604	16357		0.95	0.0E+00	4826987	NT	602132486F1 NIH_MGC_81 Homo sapiens cDNA clone IMAGE:4293645 5'
3608	16359	28999	1.08	0.0E+00	AW664693.1	EST_HUMAN	602132486F1 NIH_MGC_81 Homo sapiens cDNA clone IMAGE:4293645 5'
3608	16359	29000	1.08	0.0E+00	AW664693.1	EST_HUMAN	Homo sapiens retinoblastoma-binding protein 2 (RBBP2) mRNA
3609	16362	29004	1.42	0.0E+00	4826763	NT	h184g01.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2979024 3'
3611	16364	29007	0.93	0.0E+00	7682319	NT	h184g01.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2979024 3'
3621	16374	29018	0.82	0.0E+00	4557752	NT	Homo sapiens KIAA0808 gene product (KIAA0808), mRNA
3638	16391	29030	2.67	0.0E+00	4557752	NT	Homo sapiens midline 1 (Optiz/BBB syndrome) (MID1) mRNA
3642	16395		33.2	0.0E+00	D87327.1	NT	Homo sapiens midline 1 (Optiz/BBB syndrome) (MID1) mRNA
3658	16411	29049	2.6	0.0E+00	AB026542.1	NT	Homo sapiens mRNA for G protein-coupled inward rectifier potassium channel, complete cds
3660	16413	29051	3.38	0.0E+00	AF124250.1	NT	Homo sapiens glyceraldehyde-3-phosphate dehydrogenase (GAPD), mRNA
3660	16413	29051	3.38	0.0E+00	AF124250.1	NT	Homo sapiens WAVE2 mRNA for WASP-family protein, complete cds
3668	16421	29061	1.85	0.0E+00	AL163204.2	NT	Homo sapiens SH2-containing protein Nsp2 mRNA, complete cds
3668	16421	29062	1.85	0.0E+00	AL163204.2	NT	Homo sapiens SH2-containing protein Nsp2 mRNA, complete cds
3671	16424	29065	1.62	0.0E+00	AW851714.1	EST_HUMAN	Homo sapiens chromosome 21 segment HS21C004
							MR2-C10222-281099-005-e05 C10222 Homo sapiens cDNA

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Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
3673	16426	29067	1.53	0.0E+00	5729928	NT	Homo sapiens matrix metalloproteinase 24 (membrane-inserted) (MMP24), mRNA
3675	16428	29069	1.81	0.0E+00	AB018339.1	NT	Homo sapiens mRNA for KIAA0796 protein, partial cds
3677	16430	29071	1.1	0.0E+00	AB020717.1	NT	Homo sapiens mRNA for KIAA0910 protein, partial cds
3677	16430	29072	1.1	0.0E+00	AB020717.1	NT	Homo sapiens mRNA for KIAA0910 protein, partial cds
3678	16432	29074	22.21	0.0E+00	7662237	NT	Homo sapiens KIAA0670 protein/acinus (KIAA0670), mRNA
3679	16432	29075	22.21	0.0E+00	7662237	NT	Homo sapiens KIAA0670 protein/acinus (KIAA0670), mRNA
3692	16445	29084	4.35	0.0E+00	AW298134.1	EST_HUMAN	UI-H-BW0-ajs-e-12-0-UJ, s1 NC1 CGAP Sub6 Homo sapiens cDNA clone IMAGE:2733022 3'
3692	16445	29085	4.35	0.0E+00	AW298134.1	EST_HUMAN	UI-H-BW0-ajs-e-12-0-UJ, s1 NC1 CGAP Sub6 Homo sapiens cDNA clone IMAGE:812498 5' similar to aa06g01.r1 Soares_NhMPu, S1 Homo sapiens cDNA clone IMAGE:812498 5' similar to
3714	16487	29105	1.08	0.0E+00	AA463659.1	EST_HUMAN	SW:KRB4_SHEEP P02445 KERATIN, HIGH-SULFUR MATRIX PROTEIN, IIIB4, [1];
3718	16471	29109	1.14	0.0E+00	AB020710.1	NT	Homo sapiens mRNA for KIAA0903 protein, partial cds
3721	16474	29111	3.31	0.0E+00	7657468	NT	Homo sapiens similar to rat integral membrane glycoprotein POM121 (POM121L1), mRNA
3730	16482	29120	0.82	0.0E+00	AB037835.1	NT	Homo sapiens mRNA for KIAA1414 protein, partial cds
3742	16495	29130	4.9	0.0E+00	7662183	NT	Homo sapiens KIAA0569 gene product (KIAA0569), mRNA
3745	16498	29133	4.29	0.0E+00	4508718	NT	Homo sapiens ribosomal protein S2 (RPS2) mRNA
3751	16503	29138	1.08	0.0E+00	7657065	NT	Homo sapiens v-ets avian erythroblastosis virus E26 oncogene related (ERG), mRNA
3751	16503	29139	1.08	0.0E+00	7657065	NT	Homo sapiens v-ets avian erythroblastosis virus E26 oncogene related (ERG), mRNA
3800	16552		0.71	0.0E+00	AF195658.1	NT	Homo sapiens DNA mismatch repair protein (MLH3) gene, complete cds
3802	16564	29185	2.88	0.0E+00	AF179733.1	NT	Pan troglodytes olfactory receptor (PTR208) gene, partial cds
3804	16556	29187	2.3	0.0E+00	7657468	NT	Homo sapiens similar to rat integral membrane glycoprotein POM121 (POM121L1), mRNA
3804	16556	29188	2.3	0.0E+00	7657468	NT	Homo sapiens similar to rat integral membrane glycoprotein POM121 (POM121L1), mRNA
3808	16560	29193	1.24	0.0E+00	4759011	NT	Homo sapiens RAB9, member RAS oncogene family (RAB9) mRNA
3809	16561	29194	1.01	0.0E+00	10181139	NT	Mus musculus junctophilin 1 (Jp1-pending), mRNA
3812	16564	29197	1.01	0.0E+00	A377699.1	EST_HUMAN	ta62f10.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2091307 3'
3813	16565		1.97	0.0E+00	AF152496.1	NT	Homo sapiens protocadherin beta 3 (PCDH-beta3) mRNA, complete cds
3814	16566	29198	1.14	0.0E+00	4758199	NT	Homo sapiens desmoglein (DPI, DPL) (DSP) mRNA
3818	16570					NT	Homo sapiens ATP-sensitive inwardly rectifying K-channel subunit (KCNJ6/BIR1) gene, complete cds
3819	16571	29202	10.39	0.0E+00	S78885.1	NT	Homo sapiens methyl CpG binding protein 2 (MECP2), mRNA
3820	16572	29203	2.22	0.0E+00	7710148	NT	Homo sapiens KIAA0569 gene product (KIAA0569), mRNA
3824	16576	29207	6.03	0.0E+00	7662183	NT	Homo sapiens myosin light chain kinase isoform 2 (MLCK) mRNA, complete cds
3824	16576	29207	1.23	0.0E+00	AF069601.2	NT	Homo sapiens myosin light chain kinase isoform 2 (MLCK) mRNA, complete cds
3824	16576	29208	1.23	0.0E+00	AF069601.2	NT	Homo sapiens myosin light chain kinase isoform 2 (MLCK) mRNA, complete cds
3829	16580	29213	0.97	0.0E+00	AB001523.1	NT	Homo sapiens gene for TMEI1 and PWP2, complete and partial cds
3829	16580	29214	0.97	0.0E+00	AB001523.1	NT	Homo sapiens gene for TMEI1 and PWP2, complete and partial cds

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
3831	16582	29218	1.12	0.0E+00	6912735	NT	Homo sapiens transient receptor potential channel 5 (TRPC5), mRNA
3835	16586	29222	6.16	0.0E+00	4503178	NT	Homo sapiens chromosome X open reading frame 5 (CXORF5) mRNA
3835	16586	29223	6.16	0.0E+00	4503179	NT	Homo sapiens chromosome X open reading frame 5 (CXORF5) mRNA
3837	16588	29226	4.04	0.0E+00	U09412.1	NT	Human zinc finger protein ZNF134 mRNA, complete cds
3838	16589	29227	0.69	0.0E+00	AF114488.1	NT	Homo sapiens intersectin short isoform (ITSN) mRNA, complete cds
3841	16592	29228	2.96	0.0E+00	4826783	NT	Homo sapiens potassium voltage-gated channel, Shab-related subfamily, member 1 (KCNB1) mRNA
3844	16595	29232	1.05	0.0E+00	AF012815.1	NT	Homo sapiens familial mental retardation protein 2 (FMR2) gene, exon 11
3845	16596	29233	1.43	0.0E+00	4769171	NT	Homo sapiens SC35-interacting protein 1 (SRRP129), mRNA
3847	16598	29235	0.74	0.0E+00	AF099117.1	NT	Homo sapiens amphiphysin gene, partial cds
3856	16606	29244	2.16	0.0E+00	AB64727.1	EST_HUMAN	wk01101.x1 NCI CGAP_Lym12 Homo sapiens cDNA clone IMAGE:2411065 3' similar to TR:O43340
3859	16609	29248	4.24	0.0E+00	4506742	NT	O43340 R28830.2 : contains element PTR7 repetitive element ;
3862	16612	29251	1.35	0.0E+00	AL040338.1	EST_HUMAN	Homo sapiens ribosomal protein S8 (RPS8), mRNA
3867	16617	29256	1.28	0.0E+00	6005887	NT	DKFZp434N0413.1_1 434 (synonym: htes3) Homo sapiens cDNA clone DKFZp434N0413 5'
3867	16617	29257	1.28	0.0E+00	6005887	NT	Homo sapiens AP1 gamma subunit binding protein 1 (AP1GBP1), mRNA
3869	16619	29259	3.22	0.0E+00	4504138	NT	Homo sapiens AP1 gamma subunit binding protein 1 (AP1GBP1), mRNA
3871	16621	29261	1.82	0.0E+00	4505078	NT	Homo sapiens glutamate receptor, metabotropic 3 (GRM3) mRNA
3875	16625	29263	1.78	0.0E+00	AF149412.1	NT	Homo sapiens melanoma antigen, family B, 1 (MAGEB1) mRNA
3884	16634	29273	1.2	0.0E+00	4508758	NT	Homo sapiens HBPI7 heparin-binding and FGF-binding protein gene, complete cds
3888	16638	29277	1.47	0.0E+00	4585642	NT	Homo sapiens ryanodine receptor 3 (RYR3) mRNA
3896	16646	29286	1.18	0.0E+00	BF355295.1	EST_HUMAN	Homo sapiens zinc finger protein (KIAA0412) mRNA
3898	16648	29288	1.05	0.0E+00	AW888221.1	EST_HUMAN	RC3-HT0860-170800-011-a12 HT0860 Homo sapiens cDNA
3898	16648	29289	1.05	0.0E+00	AW888221.1	EST_HUMAN	MXRA5 Human matrix tissue expression library Homo sapiens cDNA clone Incyte 1996726 similar to MXRA5
3904	16654	29295	1.82	0.0E+00	AF129633.1	NT	MXRA5 Human matrix tissue expression library Homo sapiens cDNA clone Incyte 1996726 similar to MXRA5
3907	16657	29298	1	0.0E+00	AW451306.1	EST_HUMAN	Matrix remodeling associated gene 5
3912	16662	29303	2.81	0.0E+00	BE378602.1	EST_HUMAN	Homo sapiens F-box protein Fub3b (FBL3B) mRNA, partial cds
3920	16670	29311	0.92	0.0E+00	AW560740.1	EST_HUMAN	UI-H-B13-ah-g-07-Q-UI.s1 NCI CGAP_Sub65 Homo sapiens cDNA clone IMAGE:2736949 3'
3922	16672	29312	2.49	0.0E+00	5360215	NT	601236966F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3608800 5'
3923	16673	29313	0.98	0.0E+00	BE284998.1	EST_HUMAN	PM3-L170031-100100-003-h09 L70031 Homo sapiens cDNA
3923	16673	29314	0.98	0.0E+00	BE284998.1	EST_HUMAN	Homo sapiens dihydroate 2-sulfatase (Hunter syndrome) (IDS), transcript variant 1, mRNA
3952	16702	29339	1.42	0.0E+00	U10991.1	NT	601193827F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3537774 5'
							601193827F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3537774 5'
							Human G2 protein mRNA, partial cds

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Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
3952	16702	29340	1.42	0.0E+00	U10891.1	NT	Human G2 protein mRNA, partial cds
3952	16702	29341	1.42	0.0E+00	U10891.1	NT	Human G2 protein mRNA, partial cds
3957	16706	29344	4.69	0.0E+00	AF116195.1	NT	Homo sapiens cancer-testis antigen CT10 (CT10) gene, complete cds
3957	16706	29345	4.69	0.0E+00	AF116195.1	NT	Homo sapiens cancer-testis antigen CT10 (CT10) gene, complete cds
3966	16715		4.39	0.0E+00	M23910.1	NT	Human MHC class II lymphocyte antigen DPw4-beta-2 pseudogene, exon 2
3968	16717		6.74	0.0E+00	AL163303.2	NT	Homo sapiens chromosome 21 segment HS21C103
3975	16724	29359	1.35	0.0E+00	AL118494.1	NT	Novel human gene mapping to chromosome 20
3979	16727	29361	3.22	0.0E+00	AL163284.2	NT	Homo sapiens chromosome 21 segment HS21C084
3987	16735	29369	1.71	0.0E+00	AL163288.2	NT	Homo sapiens chromosome 21 segment HS21C088
3989	16747		27.98	0.0E+00	4503470	NT	Homo sapiens eukaryotic translation elongation factor 1 alpha 1 (EEF1A1) mRNA
4003	16750		1.15	0.0E+00	AI657076.1	EST_HUMAN	tf55g08.x1 NCL CGAP_GC6 Homo sapiens cDNA clone IMAGE:2244734 3' similar to TR:O60309 O60309 KIAA0563 PROTEIN.
4005	16751	29382	2.97	0.0E+00	7662183	NT	Homo sapiens KIAA0569 gene product (KIAA0569), mRNA
4006	16752	29383	2.65	0.0E+00	U09366.1	NT	Human zinc finger protein ZNF133
4013	16759	29387	0.95	0.0E+00	AW339490.1	EST_HUMAN	x291e10.x1 NCL CGAP_Lu24 Homo sapiens cDNA clone IMAGE:2871594 3'
4024	16769	29401	6.33	0.0E+00	AB015610.1	NT	Chlorocebus aethiops mRNA for ribosomal protein S4X, complete cds
4033	16778		3.72	0.0E+00	AJ238617.1	NT	Homo sapiens mRNA for UGA suppressor tRNA-associated antigenic protein (RNA48 gene)
4045	16790	29418	1.32	0.0E+00	AB002314.2	NT	Homo sapiens mRNA for KIAA0316 protein, partial cds
4046	16791	29419	1.04	0.0E+00	AL163203.2	NT	Homo sapiens chromosome 21 segment HS21C003
4047	16792	29420	1.18	0.0E+00	AF036943.1	NT	Homo sapiens myelin transcription factor 1-like (MYT1-L) mRNA, complete cds
4048	16793	29421	2.65	0.0E+00	AJ277276.1	NT	Homo sapiens mRNA for rape-2 (rape gene)
4054	16798	29429	6.29	0.0E+00	5032026	NT	Homo sapiens mRNA for rape-2 (rape gene)
4054	16799	29430	6.29	0.0E+00	5032026	NT	Homo sapiens retinoblastoma-binding protein 4 (RBBP4) mRNA
4069	16813	29442	4.7	0.0E+00	4885306	NT	Homo sapiens G protein-coupled receptor 21 (GPR21), mRNA
4070	16814	29443	5.98	0.0E+00	AB006625.1	NT	Homo sapiens mRNA for KIAA0287 gene, partial cds
4073	16817	29444	1.11	0.0E+00	4758907	NT	Homo sapiens ras GTPase activating protein-like (NGAP) mRNA
4074	16818	29445	5.87	0.0E+00	11419297	NT	Homo sapiens IMP (inosine monophosphate) dehydrogenase 1 (IMPDH1), mRNA
4075	16819	29446	1.94	0.0E+00	AL096857.1	NT	Novel human mRNA from chromosome 1, which has similarities to BAT2 genes
4082	16826	29453	2.71	0.0E+00	AF165527.1	NT	Homo sapiens DGCR8 (DGCR8) mRNA, complete cds
4091	13867	26525	0.82	0.0E+00	4826947	NT	Homo sapiens protein kinase, X-linked (PRKX) mRNA
4091	13867	26526	0.82	0.0E+00	4826947	NT	Homo sapiens protein kinase, X-linked (PRKX) mRNA
4097	16840	29466	1.09	0.0E+00	5901905	NT	Homo sapiens butyrophilin, subfamily 3, member A2 (BTN3A2), mRNA
4098	16842	29469	1.08	0.0E+00	4503854	NT	Homo sapiens GA-binding protein transcription factor, alpha subunit (60kD) (GABPA), mRNA

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
4099	16842	29470	1.08	0.0E+00	4503854	NT	Homo sapiens GA-binding protein transcription factor, alpha subunit (GABPA), mRNA
4107	16850	29476	0.89	0.0E+00	AB020702.1	NT	Homo sapiens mRNA for KIAA0895 protein, partial cds
4112	16855	29482	4.93	0.0E+00	A1982597.1	EST_HUMAN	wu04404.x1 NCI_CGAP_G08 Homo sapiens cDNA clone IMAGE:2815975 3'
4112	16855	29483	4.93	0.0E+00	A1982597.1	EST_HUMAN	wu04404.x1 NCI_CGAP_G08 Homo sapiens cDNA clone IMAGE:2815975 3'
4115	16857	29485	0.82	0.0E+00	BE184856.1	EST_HUMAN	MR1-HT0707-100500-001-a02 HT0707 Homo sapiens cDNA
4115	16857	29486	0.82	0.0E+00	BE184856.1	EST_HUMAN	MR1-HT0707-100500-001-a02 HT0707 Homo sapiens cDNA
4120	16862		2.34	0.0E+00	BE274217.1	EST_HUMAN	601120778F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:2967690 5'
4126	16868	29495	0.99	0.0E+00	AB032951.1	NT	Homo sapiens mRNA for KIAA1125 protein, partial cds
4126	16868	29496	0.99	0.0E+00	AB032951.1	NT	Homo sapiens mRNA for KIAA1125 protein, partial cds
4128	16870	29498	2.24	0.0E+00	5728725	NT	Homo sapiens nuclear receptor coactivator 3 (NCOA3), mRNA
4135	16877		5.52	0.0E+00	AW675599.1	EST_HUMAN	ba51f04.x1 NIH_MGC_10 Homo sapiens cDNA clone IMAGE:2900095 3' similar to SW:TH12_BOVIN
4140	16882	29511	1.14	0.0E+00	AW408788.1	EST_HUMAN	Q95108 MITOCHONDRIAL THIOREDOXIN PRECURSOR ;
4142	16884	29514	1.28	0.0E+00	8922466	NT	U1-HF-BM0-adv-c-02-QJ1r1 NIH_MGC_38 Homo sapiens cDNA clone IMAGE:3063147 5'
4142	16884	29515	1.26	0.0E+00	8922466	NT	Homo sapiens hypothetical protein FLJ10498 (FLJ10498), mRNA
4151	16893		2.8	0.0E+00	5174632	NT	Homo sapiens polycystic kidney disease (polycystin) and REJ (sperm receptor for egg jelly, sea urchin homolog)-like (PKDREJ) mRNA
4169	16909	29537	8.97	0.0E+00	AA401438.1	EST_HUMAN	zu68h07.s1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:743197 3' similar to contains Alu repetitive element; contains element MER35 repetitive element ;
4169	16909	29538	8.97	0.0E+00	AA401438.1	EST_HUMAN	zu68h07.s1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:743197 3' similar to contains Alu repetitive element; contains element MER35 repetitive element ;
4205	16946		1.01	0.0E+00	AL163303.2	NT	Homo sapiens chromosome 21 segment HS21C103
4240	16981	29606	4.08	0.0E+00	J02610.1	NT	Human apolipoprotein B-100 mRNA, complete cds
4255	16996	29625	0.83	0.0E+00	AW936689.1	EST_HUMAN	PM2-DT0023-080300-004-a08 DT0023 Homo sapiens cDNA
4261	17002	29633	0.74	0.0E+00	4826827	NT	Homo sapiens myelodysplasia syndrome 1 (MDS1) mRNA
4261	17002	29634	0.74	0.0E+00	4826827	NT	Homo sapiens myelodysplasia syndrome 1 (MDS1) mRNA
4263	17004	29636	4.7	0.0E+00	AF174590.1	NT	Homo sapiens F-box protein Fbx4 (FBL4) mRNA, partial cds
4270	17010		2.52	0.0E+00	AI189844.1	EST_HUMAN	qd23f06.x1 Soares_placenta_80weeks_2NbrtP80c9W Homo sapiens cDNA clone IMAGE:1724579 3' similar to contains MER20.b2 MER20 repetitive element ;
4273	17012		4.32	0.0E+00	U14520.1	NT	Human CBFA3 (Cbfa3) gene, partial cds
4285	17024	29650	1.35	0.0E+00	4505646	NT	Homo sapiens protein kinase C, nu (PRKCN), mRNA
4291	17030	29657	0.76	0.0E+00	6563384	NT	Homo sapiens protein kinase C, nu (PRKCN), mRNA
4291	17030	29658	0.76	0.0E+00	6563384	NT	Homo sapiens protein kinase C, nu (PRKCN), mRNA
4297	17036	29664	1.58	0.0E+00	U10991.1	NT	Human G2 protein mRNA, partial cds

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
4297	17036	29665	1.58	0.0E+00	U10991.1	NT	Human G2 protein mRNA, partial cds
4307	17046	29671	8.31	0.0E+00	6912281	NT	Homo sapiens COMPLEMENT COMPONENT C1q RECEPTOR (C1QR), mRNA
4327	17066		1.16	0.0E+00	AF153047.2	NT	Homo sapiens gap junction protein connexin-36 (CX36) gene, complete cds
4337	17076	29704	4.17	0.0E+00	L14561.1	NT	Homo sapiens plasma membrane calcium ATPase isoform 1 (ATP2B1) gene, alternative splice products, partial cds
4341	17080	29709	2.88	0.0E+00	Z80780.1	NT	H. sapiens H2B/h gene
4341	17080	29710	2.88	0.0E+00	Z80780.1	NT	H. sapiens H2B/h gene
4342	17081	29711	0.94	0.0E+00	AW166933.1	EST_HUMAN	xg89e10.x1 NCI_CGAP_U14 Homo sapiens cDNA clone IMAGE:2633514 3' similar to TR:P97365 P97365
4348	17087	29717	1.42	0.0E+00	X60483.1	NT	ZINC FINGER PROTEIN 64 :
4348	17087	29718	1.42	0.0E+00	X60483.1	NT	H. sapiens H4/d gene for H4 histone
4353	17091	29724	8.62	0.0E+00	7662091	NT	H. sapiens H4/d gene for H4 histone
4353	17091	29725	8.62	0.0E+00	7662091	NT	Homo sapiens KIAA0390 gene product (KIAA0390), mRNA
4366	17104	29740	12.59	0.0E+00	4885126	NT	Homo sapiens KIAA0390 gene product (KIAA0390), mRNA
4367	17105	29741	1.14	0.0E+00	AJ271736.1	NT	Homo sapiens caudal type homeo box transcription factor 4 (CDX4), mRNA
4400	17137	29766	0.98	0.0E+00	7019456	NT	Homo sapiens Xq pseudautosomal region, segment 2/2
4408	17145		6.5	0.0E+00	AF195983.1	NT	Homo sapiens myosin regulatory light chain interacting protein (MIR), mRNA
4414	17151	29778	1.25	0.0E+00	AJ249765.1	NT	Homo sapiens membrane-bound aminopeptidase P (XNPEP2) gene, complete cds
4414	17151	29779	1.25	0.0E+00	AJ249765.1	NT	Homo sapiens ACTN2 gene for alpha-Actinin 2, exon 10
4438	17172		1.81	0.0E+00	AF200629.1	NT	Homo sapiens ACTN2 gene for alpha-Actinin 2, exon 10
4453	17189	29814	1.43	0.0E+00	T10233.1	EST_HUMAN	Homo sapiens HPS1 gene, intron 5
4453	17189	29815	1.43	0.0E+00	T10233.1	EST_HUMAN	seq1329 b4HB3MA C08-HAP-Ft Homo sapiens cDNA clone b4HB3MA-COT8-HAP-F205 5'
4456	17192		0.73	0.0E+00	M14123.1	NT	seq1329 b4HB3MA C08-HAP-Ft Homo sapiens cDNA clone b4HB3MA-COT8-HAP-F205 5'
4466	17202	29828	5.88	0.0E+00	AW084964.1	EST_HUMAN	Human endogenous retrovirus HERV-K10
4468	17981		1.57	0.0E+00	8051619	NT	xc68e08.x1 NCI_CGAP_Eso2 Homo sapiens cDNA clone IMAGE:2589446 3' similar to SW:AHNK_HUMAN
4470	17205	29831	0.93	0.0E+00	AI696698.1	EST_HUMAN	Q09696 NEUROBLAST DIFFERENTIATION ASSOCIATED PROTEIN AHNK ;
4473	17208		8.82	0.0E+00	AL163207.2	NT	Homo sapiens LIM domain kinase 2 (LIMK2), transcript variant 2a, mRNA
4475	17210	29835	3.17	0.0E+00	AW381570.1	EST_HUMAN	wc56b02.x1 NCI_CGAP_P128 Homo sapiens cDNA clone IMAGE:2322603 3' similar to contains MER22.b2
4481	17216	29842	1.99	0.0E+00	AJ278120.1	NT	PT85 repetitive element ;
4481	17216	29843	1.99	0.0E+00	AJ278120.1	NT	Homo sapiens chromosome 21 segment HS21C007
4483	17218	29845	1.29	0.0E+00	AF108830.1	NT	PM1-HT0305-101199-002-d03 HT0305 Homo sapiens cDNA
4484	17219	29846	2.88	0.0E+00	AF108830.1	NT	Homo sapiens mRNA for putative ankyrin-repeat containing protein (ORF1)
							Homo sapiens mRNA for putative ankyrin-repeat containing protein (ORF1)
							Homo sapiens G protein-coupled receptor 50 (GPR50) mRNA
							Homo sapiens serine-threonine protein kinase (MNBH) mRNA, complete cds

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
4493	17229	29858	1.26	0.0E+00	S78684.1	NT	Homo sapiens ATP-sensitive inwardly rectifying K-channel subunit (KCNJ6/BIR1) gene, exon
4494	17230	29859	1.06	0.0E+00	AF111163.1	NT	Homo sapiens pyrin (MEFV) gene, complete cds
4494	17230	29860	1.06	0.0E+00	AF111163.1	NT	Homo sapiens pyrin (MEFV) gene, complete cds
4502	17882	29870	2.56	0.0E+00	6005973	NT	Homo sapiens zinc finger protein 195 (ZNF195), mRNA
4507	17242	29875	6.16	0.0E+00	AF208161.1	NT	Homo sapiens synovial precursor, mRNA, complete cds
4512	17247	29882	4.31	0.0E+00	AF162337.1	NT	Homo sapiens protocadherin gamma C3 (PCDH-gamma-C3) mRNA, complete cds
4515	17250	29886	1.32	0.0E+00	5454175	NT	Homo sapiens zinc finger protein 211 (ZNF211), mRNA
4525	17260	29894	15.47	0.0E+00	4503470	NT	Homo sapiens eukaryotic translation elongation factor 1 alpha 1 (EEF1A1) mRNA
4532	17267	29900	0.79	0.0E+00	4505016	NT	Homo sapiens low density lipoprotein receptor-related protein 6 (LRP6) mRNA, and translated products
4536	17271	29903	1.61	0.0E+00	4503098	NT	Homo sapiens chondroitin sulfate proteoglycan 4 (melanoma-associated) (CSPG4), mRNA
4540	17276	29908	2.03	0.0E+00	4502656	NT	Homo sapiens calcium/calmodulin-dependent protein kinase IV (CAMK4) mRNA
4544	17279		2.38	0.0E+00	L35485.1	NT	Homo sapiens uronate sulphate sulphatase (IDS) gene, complete cds
4546	17281	29910	12.72	0.0E+00	7662091	NT	Homo sapiens KIAA0390 gene product (KIAA0390), mRNA
4548	17281	29911	12.72	0.0E+00	7662091	NT	Homo sapiens PTEN (PTEN) gene, exons 3 through 5
4563	17298	29925	0.96	0.0E+00	AF143314.1	NT	Homo sapiens mRNA for G7c protein (G7c gene located in the class III region of the major histocompatibility complex)
4566	17301	29928	10.33	0.0E+00	AJ245418.1	NT	Homo sapiens mRNA for G7c protein (G7c gene located in the class III region of the major histocompatibility complex)
4566	17301	29929	10.33	0.0E+00	AJ245418.1	NT	Homo sapiens mRNA for G7c protein (G7c gene located in the class III region of the major histocompatibility complex)
4581	17316		1.68	0.0E+00	AA174072.1	EST_HUMAN	zfp1808.s1 Stralagene fetal retina 937202 Homo sapiens cDNA clone IMAGE:609854 3'
4583	17318		1.46	0.0E+00	7657410	NT	Homo sapiens odz (odd Oz/ten-m, Drosophila) homolog 1 (ODZ1), mRNA
4585	17320		3.16	0.0E+00	AL163284.2	NT	Homo sapiens chromosome 21 segment HS21C084
4586	17321	29947	1.04	0.0E+00	H92741.1	EST_HUMAN	y02b01.s1 Soares_pineal_gland_N3HPG Homo sapiens cDNA clone IMAGE:231721 3'
4586	17321	29948	1.04	0.0E+00	H92741.1	EST_HUMAN	y02b01.s1 Soares_pineal_gland_N3HPG Homo sapiens cDNA clone IMAGE:231721 3'
4587	17322	29949	2.8	0.0E+00	AF184110.1	NT	Homo sapiens cyclophilin-related protein (NKTR) gene, complete cds
4588	17323	29950	4.94	0.0E+00	AL163300.2	NT	Homo sapiens chromosome 21 segment HS21C100
4589	17324		1.66	0.0E+00	AB037621.1	NT	Homo sapiens gene for natriuretic protein, partial cds
4596	17331	29958	1.53	0.0E+00	4557887	NT	Homo sapiens keratin 18 (KR18) mRNA
4596	17331	29959	1.53	0.0E+00	4557887	NT	Homo sapiens keratin 18 (KR18) mRNA
4597	17332	29960	1.52	0.0E+00	AF153819.1	NT	Homo sapiens inwardly-rectifying potassium channel Kir2.1 (KCNJ2) gene, exon 2 and complete cds
4597	17332	29961	1.52	0.0E+00	AF153819.1	NT	Homo sapiens inwardly-rectifying potassium channel Kir2.1 (KCNJ2) gene, exon 2 and complete cds

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
4598	17333	29862	1.5	0.0E+00	AF167441.1	NT	Mus musculus E-cadherin binding protein E7 mRNA, complete cds
4605	17340	29870	1.22	0.0E+00	AB028970.1	NT	Homo sapiens mRNA for KIAA1047 protein, partial cds
4605	17340	29871	1.22	0.0E+00	AB028970.1	NT	Homo sapiens mRNA for KIAA1047 protein, partial cds
4611	17346	29879	5.25	0.0E+00	Y18890.1	NT	Human endogenous retrovirus type K (HERV-K), gag, pol and env genes
4617	17352	29887	1.08	0.0E+00	AA418246.1	EST_HUMAN	z96607.s1 Soares_NHMPu_S1 Homo sapiens cDNA clone IMAGE:767605 3'
4624	17359		2.27	0.0E+00	AF086641.1	NT	Homo sapiens truncated tenascin XB (TNXB) gene, partial cds and TNXA gene recombination breakpoint region
4629	17364	29998	1.06	0.0E+00	AL163278.2	NT	Homo sapiens chromosome 21 segment HS21C078
4629	17364	29999	1.06	0.0E+00	AL163278.2	NT	Homo sapiens chromosome 21 segment HS21C078
4630	17365	30000	2.72	0.0E+00	AB037820.1	NT	Homo sapiens mRNA for KIAA1399 protein, partial cds
4630	17365	30001	2.72	0.0E+00	AB037820.1	NT	Homo sapiens mRNA for KIAA1399 protein, partial cds
4631	17366	30002	2.67	0.0E+00	M74099.1	NT	Human displacement protein (OCAAT) mRNA
4635	17370	30006	1.84	0.0E+00	6453812	NT	Homo sapiens butyrophilin, subfamily 2, member A2 (BTN2A2), mRNA
4635	17370	30006	1.84	0.0E+00	6453812	NT	Homo sapiens butyrophilin, subfamily 2, member A2 (BTN2A2), mRNA
4636	12950	25593	0.82	0.0E+00	T56945.1	EST_HUMAN	ya83g04.r2 Stratagene fetal spleen (#937205) Homo sapiens cDNA clone IMAGE:68310 5'
4636	12950	25594	0.82	0.0E+00	T56945.1	EST_HUMAN	ya83g04.r2 Stratagene fetal spleen (#937205) Homo sapiens cDNA clone IMAGE:68310 5'
4639	17373		1.31	0.0E+00	BE278730.1	EST_HUMAN	601158935F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3605521 5'
4660	17394	30029	1.33	0.0E+00	U56651.1	NT	Mus musculus neuroxophilin 1 (Nxp1) gene, large exon and 3' end of the intron, and partial cds
4665	17399	30033	5.87	0.0E+00	M80902.1	NT	Human AHNK nucleoprotein mRNA, 5' end
4668	17402	30036	2.23	0.0E+00	M69197.1	NT	Human haptoglobin and haptoglobin-related protein (HP and HPR) genes, complete cds
4668	17402	30037	2.23	0.0E+00	M69197.1	NT	Human haptoglobin and haptoglobin-related protein (HP and HPR) genes, complete cds
4671	17405	30040	1.9	0.0E+00	AF184110.1	NT	Homo sapiens cyclophilin-related protein (NKTR) gene, complete cds
4673	17407	30042	2.02	0.0E+00	7682181	NT	Homo sapiens KIAA0563 gene product (KIAA0563), mRNA
4680	17414	30049	0.95	0.0E+00	U07563.1	NT	Human proto-oncogene tyrosine-protein kinase (ABL) gene, exon 1a and exons 2-10, complete cds
4681	17415	30050	0.97	0.0E+00	S71446.1	NT	SCN1A=brain type I sodium channel alpha-subunit (IIIS5 transmembrane region) [human, placenta, Genomic, 1556 nt]
4681	17415	30051	0.97	0.0E+00	S71446.1	NT	SCN1A=brain type I sodium channel alpha-subunit (IIIS5 transmembrane region) [human, placenta, Genomic, 1556 nt]
4682	17426		1.45	0.0E+00	X58467.1	NT	Human CYP2D7AP pseudogene for cytochrome P450 2D6
4701	17435	30065	1.05	0.0E+00	7304922	NT	Homo sapiens bromodomain adjacent to zinc finger domain, 2B (BAZ2B), mRNA
4701	17435	30066	1.05	0.0E+00	7304922	NT	Homo sapiens bromodomain adjacent to zinc finger domain, 2B (BAZ2B), mRNA
4709	17441	30073	1.4	0.0E+00	AF026801.1	NT	Homo sapiens alpha-3 type IX collagen (COL9A3) gene, promoter region, and exons 1-28
4712	17444	30076	0.84	0.0E+00	7019320	NT	Homo sapiens proteinx0008 (AD073), mRNA

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4712	17444	30077	0.84	0.0E+00	7019320	NT	Homo sapiens proteinx0008 (AD013), mRNA
4735	17467	30103	1.88	0.0E+00	AW444637.1	EST_HUMAN	U1-HB13-ajw-c-04-0-U1.s1 NCI_OGAP_Sub6 Homo sapiens cDNA clone IMAGE:2733284 3'
4740	17472		1.82	0.0E+00	AF083242.1	NT	Homo sapiens HSPC024-iso mRNA, complete cds
4750	17482		2.28	0.0E+00	M65189.1	NT	Human connexin 43 processed pseudogene
4780	17521		2.79	0.0E+00	AF240786.1	NT	Homo sapiens glutathione S-transferase theta 2 (GSTT2) and glutathione S-transferase theta 1 (GSTT1) genes, complete cds
4784	17525	30147	2.02	0.0E+00	X87205.1	NT	M.fascicularis mRNA for metalloprotease-like, disintegrin-like protein, IVa
4786	17527	30149	1.11	0.0E+00	AF084479.1	NT	Homo sapiens Williams-Beuren syndrome deletion transcript 9 (WBSCR9) mRNA, complete cds
4787	17528	30150	1.98	0.0E+00	AF097416.1	NT	Mus musculus zinc finger transcription factor Kaiso mRNA, complete cds
4788	17529	30151	3.01	0.0E+00	4503768	NT	Homo sapiens fragile X mental retardation 2 (FMR2) mRNA
4800	17531	30153	13.57	0.0E+00	4885048	NT	Homo sapiens actin, alpha, cardiac muscle (ACTC), mRNA
4801	17532	30154	1.04	0.0E+00	P52740	SWISSPROT	ZINC FINGER PROTEIN 132
4805	17536	30159	5.7	0.0E+00	8923080	NT	Homo sapiens hypothetical protein FLJ20073 (FLJ20073), mRNA
4809	17540	30163	0.97	0.0E+00	7661979	NT	Homo sapiens KIAA0187 gene product (KIAA0187), mRNA
4810	17541	30164	1.84	0.0E+00	M94081.1	NT	Human Tcr-C-delta gene, exons 1-4; Tcr-V-delta gene, exons 1-2; T-cell receptor alpha (Tcr-alpha) gene, J1-J61 segments; and Tcr-C-alpha gene, exons 1-4
4810	17541	30165	1.84	0.0E+00	M94081.1	NT	Human Tcr-C-delta gene, exons 1-4; Tcr-V-delta gene, exons 1-2; T-cell receptor alpha (Tcr-alpha) gene, J1-J61 segments; and Tcr-C-alpha gene, exons 1-4
4812	17543	30167	1.44	0.0E+00	X94828.1	NT	H.sapiens MeCP-2 gene
4812	17543	30168	1.44	0.0E+00	X94828.1	NT	H.sapiens MeCP-2 gene
4815	17548	30171	2.96	0.0E+00	AL163280.2	NT	Homo sapiens chromosome 21 segment HS21C080
4823	17554	30176	1.17	0.0E+00	5032150	NT	Homo sapiens TATA box binding protein (TBP)-associated factor, RNA polymerase II, 1, 28kD (TAF21) mRNA
4830	17561	30183	1.09	0.0E+00	X92841.1	NT	H.sapiens MICA gene
4832	17563	30185	1.91	0.0E+00	4585642	NT	Homo sapiens zinc finger protein (KIAA0412), mRNA
4833	17564	30186	1.81	0.0E+00	AB014533.1	NT	Homo sapiens mRNA for KIAA0633 protein, partial cds
4834	17565	30187	2.24	0.0E+00	6677848	NT	Mus musculus zinc finger protein interacting with K protein 1 (Zik1), mRNA
4835	17566	30188	0.95	0.0E+00	5174560	NT	Homo sapiens meningioma expressed antigen 6 (coiled-coil proline-rich) (MGEA6), mRNA
4836	17567	30189	1.19	0.0E+00	4788199	NT	Homo sapiens desmoplakin (DPI, DPL) (DSP) mRNA
4838	17569	30191	1.81	0.0E+00	7705546	NT	Homo sapiens zinc-finger DNA-binding protein (HUMHOXY1), mRNA
4842	17572	30196	12.62	0.0E+00	AF055066.1	NT	Homo sapiens MHC class 1 region
4844	17574		3.47	0.0E+00	4505508	NT	Homo sapiens oploid receptor, delta 1 (OPRD1) mRNA
4845	17575	30199	2.39	0.0E+00	AF091711.1	NT	Homo sapiens splice variant AKAP350 mRNA, partial cds
4858	17587	30210	1.07	0.0E+00	D63562.1	NT	Homo sapiens COL4A6 gene for alpha(IV) collagen, exon 44 and partial cds

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
4860	17589	30212	1.98	0.0E+00	4503884	NT	Homo sapiens farnesyl diphosphate synthase (farnesyl pyrophosphate synthetase, dimethylallyltransferase, geranyltransferase) (FDPS) mRNA
4865	17224	29852	1.03	0.0E+00	4506952	NT	Homo sapiens sialyltransferase 8 (alpha-N-acetylneuraminidase: alpha-2,8-sialyltransferase, GD3 synthase) (SIAT8) mRNA
4875	17602	30224	3.09	0.0E+00	AB006625.1	NT	Homo sapiens mRNA for KIAA0287 gene, partial cds
4875	17602	30225	3.09	0.0E+00	AB006625.1	NT	Homo sapiens mRNA for KIAA0287 gene, partial cds
4885	17612	30232	0.95	0.0E+00	AB026898.1	NT	Homo sapiens DNA, DLEC1 to ORCTL4 gene region, section 1/2 (DLEC1, ORCTL3, ORCTL4 genes, complete cds)
4899	17626	30243	1.45	0.0E+00	AL163284.2	NT	Homo sapiens chromosome 21 segment HS21C084
4906	17633	30248	1.02	0.0E+00	AW452728.1	EST_HUMAN	U1-H-B13-ali-v4.02-0-J1.s1 NCL CGAP_Sub5 Homo sapiens cDNA clone IMAGE:3068691 3'
4909	17637	30251	1.61	0.0E+00	8822928	NT	Homo sapiens hypothetical protein FLJ11190 (FLJ11190), mRNA
4812	17640	30255	1.08	0.0E+00	4502398	NT	Homo sapiens beaded filament structural protein 1, filensin (BFSP1) mRNA
4915	17643		4.69	0.0E+00	U14967.1	NT	Human ribosomal protein L21 mRNA, complete cds
4924	17652		2.95	0.0E+00	BE408863.1	EST_HUMAN	601303729F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3638118 5'
4928	17656	30268	3.18	0.0E+00	4758199	NT	Homo sapiens desmoplakin (DPI, DP1) (DSP) mRNA
4933	17681	30271	1.15	0.0E+00	7662401	NT	Homo sapiens KIAA0952 protein (KIAA0952), mRNA
4938	17686	30274	1.01	0.0E+00	AB028966.1	NT	Homo sapiens mRNA for KIAA1043 protein, partial cds
4947	17674	30283	2.34	0.0E+00	8923441	NT	Homo sapiens hypothetical protein FLJ20477 (FLJ20477), mRNA
4947	17674	30284	2.34	0.0E+00	8923441	NT	Homo sapiens hypothetical protein FLJ20477 (FLJ20477), mRNA
4958	17683	30291	0.81	0.0E+00	AA601246.1	EST_HUMAN	no14909.s1 NCL CGAP_Phe1 Homo sapiens cDNA clone IMAGE:1100704 3' similar to TR:E239140
4958	17683	30292	0.81	0.0E+00	AA601246.1	EST_HUMAN	no14909.s1 NCL CGAP_Phe1 Homo sapiens cDNA clone IMAGE:1100704 3' similar to TR:E239140
4958	17683	30293	0.81	0.0E+00	AA601246.1	EST_HUMAN	no14909.s1 NCL CGAP_Phe1 Homo sapiens cDNA clone IMAGE:1100704 3' similar to TR:E239140
4961	17688	30295	1.11	0.0E+00	AF161463.1	NT	Homo sapiens HSPC114 mRNA, complete cds
4961	17688	30296	1.11	0.0E+00	AF161463.1	NT	Homo sapiens HSPC114 mRNA, complete cds
4973	13019	25661	0.71	0.0E+00	AF195688.1	NT	Homo sapiens DNA mismatch repair protein (MLH3) gene, complete cds
4976	17699		0.84	0.0E+00	AL050253.1	NT	H. sapiens mRNA similar to D29763 mouse mRNA for seizure-related gene product 6. Shares domains with BMPs, Tollid, Sushi repeat proteins
4985	17708	30312	1.83	0.0E+00	AF016705.1	NT	Homo sapiens E6-AP ubiquitin-protein ligase (UBE3A) gene, exon 3
4986	17709	30313	1.5	0.0E+00	Y19186.1	NT	Mus musculus mRNA for aczonin, short spliced variant (acz gene)
4986	17709	30314	1.5	0.0E+00	Y19186.1	NT	Mus musculus mRNA for aczonin, short spliced variant (acz gene)
4994	17717		1.26	0.0E+00	AL163209.2	NT	Homo sapiens chromosome 21 segment HS21C009

Table 4

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
4997	17720		26.03	0.0E+00	D50857.1	NT	Homo sapiens gamma-cytoplasmic actin (ACTGP3) pseudogene
5001	17724	30326	0.97	0.0E+00	AA084272.1	EST_HUMAN	z03g10.r1 Stragene hNT neuron (#937233) Homo sapiens cDNA clone IMAGE:546402 5'
5001	17724	30327	0.97	0.0E+00	AA084272.1	EST_HUMAN	z03g10.r1 Stragene hNT neuron (#937233) Homo sapiens cDNA clone IMAGE:546402 5'
5012	16924	29553	0.95	0.0E+00	4507720	NT	Homo sapiens titin (TTN) mRNA
5012	16924	29554	0.95	0.0E+00	4507720	NT	Homo sapiens titin (TTN) mRNA
5026	17747	30359	3	0.0E+00	X52988.1	NT	Bacillus amyloqueliciens sacB gene for levansucrase (EC 2.4.1.10)
5042	17761	30375	1.04	0.0E+00	AF240835.1	NT	Homo sapiens vascular endothelial cadherin 2 mRNA, complete cds
5042	17761	30376	1.04	0.0E+00	AF240835.1	NT	Homo sapiens vascular endothelial cadherin 2 mRNA, complete cds
5045	17764	30380	1.55	0.0E+00	7657074	NT	Homo sapiens vascular endothelial cadherin 2 mRNA, complete cds
5045	17764	30381	1.55	0.0E+00	7657074	NT	Homo sapiens ecotropic viral integration site 2A (EV12A), mRNA
5049	17768	30387	1.11	0.0E+00	AL163281.2	NT	Homo sapiens ecotropic viral integration site 2A (EV12A), mRNA
5050	17769	30388	14.05	0.0E+00	11421001	NT	Homo sapiens chromosome 21 segment HS21C081
5052	17771	30389	1.03	0.0E+00	4557362	NT	Homo sapiens HEF like Protein (HEFL), mRNA
5056	17775	30391	2.75	0.0E+00	Y12477.1	NT	Homo sapiens PR domain containing 1, with ZNF domain (PRDM1) mRNA
5056	17775	30392	2.75	0.0E+00	Y12477.1	NT	Homo sapiens putative GPR37 gene, exon 2
5058	17777	30394	1.07	0.0E+00	Y08032.1	NT	Homo sapiens putative GPR37 gene, exon 2
5079	17798	30414	1.01	0.0E+00	8923822	NT	Human endogenous retrovirus-K, LTR U5 and gag gene
5079	17798	30415	1.01	0.0E+00	8923822	NT	Homo sapiens potassium inwardly-rectifying channel, subfamily J, member 16 (KCNJ16), mRNA
5081	17800	30417	0.76	0.0E+00	7706245	NT	Homo sapiens potassium inwardly-rectifying channel, subfamily J, member 16 (KCNJ16), mRNA
5081	17800	30418	0.76	0.0E+00	7706245	NT	Homo sapiens 4F2 light chain (LOC51597), mRNA
5088	17807	30423	2.69	0.0E+00	7657008	NT	Homo sapiens 4F2 light chain (LOC51597), mRNA
5087	17816	30433	2.05	0.0E+00	AB011131.1	NT	Homo sapiens deleted in bladder cancer chromosome region candidate 1 (DBCCR1), mRNA
5109	17827	30444	1.23	0.0E+00	D49802.1	NT	Homo sapiens mRNA for KIAA0559 protein, partial cds
						NT	Mus musculus mRNA for leucine-rich repeat protein, partial cds
5110	17828	30445	1.14	0.0E+00	AF227534.1	NT	Rattus norvegicus multidomain presynaptic cytomatrix protein Piccolo mRNA, complete cds, long splice variant
5111	17829	30446	1.88	0.0E+00	AF227534.1	NT	Rattus norvegicus multidomain presynaptic cytomatrix protein Piccolo mRNA, complete cds, long splice variant
5112	17830	30447	0.99	0.0E+00	AF245702.1	NT	Homo sapiens toll-like receptor 7 (TLR7) mRNA, complete cds
5115	17833	30449	6.53	0.0E+00	4505096	NT	Homo sapiens microtubule-associated protein 2 (MAP2) mRNA
5116	17834	30450	1.5	0.0E+00	6006002	NT	Homo sapiens glutamate receptor, ionotropic, N-methyl D-aspartate 2A (GRIN2A) mRNA
5116	17834	30451	1.5	0.0E+00	6006002	NT	Homo sapiens glutamate receptor, ionotropic, N-methyl D-aspartate 2A (GRIN2A) mRNA
5117	17835	30452	1.6	0.0E+00	AW955819.1	EST_HUMAN	EST367889 MAGC sequences, MAGD Homo sapiens cDNA
5119	17837		1.31	0.0E+00	AB040946.1	NT	Homo sapiens mRNA for KIAA1513 protein, partial cds
5126	17844		1.12	0.0E+00	AJ010179.1	NT	Homo sapiens gabbr1 receptor gene, exon 6

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
5139	17857	30473	5.57	0.0E+00	AB027013.1	NT	Homo sapiens mRNA for Nucleosome Assembly Protein 1-like 2, complete cds
5150	17861	30477	1.19	0.0E+00	AB035356.1	NT	Homo sapiens mRNA for neuroxin 1-alpha protein, complete cds
5151	17868	30481	1.18	0.0E+00	AB029040.1	NT	Homo sapiens mRNA for KIAA1117 protein, partial cds
5154	17871		1.08	0.0E+00	M91803.1	NT	Human sodium channel mRNA
5155	17872	30484	1.37	0.0E+00	5454013	NT	Homo sapiens ring finger protein 15 (RNF15), mRNA
5162	17893		3.44	0.0E+00	AF083093.1	NT	Homo sapiens aconitase (ACO2) gene, nuclear gene encoding mitochondrial protein, exon 15
5172	17981	30495	2.52	0.0E+00	AF137286.1	NT	Homo sapiens keratin 12 (KRT12) gene, complete cds
5172	17981	30498	2.52	0.0E+00	AF137286.1	NT	Homo sapiens keratin 12 (KRT12) gene, complete cds
5192	18000	30623	1.29	0.0E+00	AI834954.1	EST_HUMAN	wp08g08.x1 NCL_CGAP_Kid12 Homo sapiens cDNA clone IMAGE:2464094 3'
5195	18003	30626	1.77	0.0E+00	9256579	NT	Homo sapiens protocadherin alpha 13 (PCDHA13), mRNA
5209	18017	30639	3.81	0.0E+00	BE931080.1	EST_HUMAN	Homo sapiens polyomavirus kidney disease-like 2 protein (PKDL2) mRNA, complete cds
5213	18021	30643	3	0.0E+00	AF182034.1	NT	Homo sapiens polyomavirus kidney disease-like 2 protein (PKDL2) mRNA, complete cds
5213	18021	30644	3	0.0E+00	AF182034.1	NT	Homo sapiens polyomavirus kidney disease-like 2 protein (PKDL2) mRNA, complete cds
5220	18027	30652	1.66	0.0E+00	X56163.1	NT	H. sapiens immunoglobulin heavy chain gene, variable region
5220	18027	30653	1.66	0.0E+00	X56163.1	NT	H. sapiens immunoglobulin heavy chain gene, variable region
5299	18104	30763	6.56	0.0E+00	BE975498.1	EST_HUMAN	7110c06.x1 NCL_CGAP_CLL1 Homo sapiens cDNA clone IMAGE:3294250 3'
5300	18105	30764	1.75	0.0E+00	BE220753.1	EST_HUMAN	h99e02.x1 NCL_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3165194 3' similar to SW:Y054_HUMAN
5301	18106	30765	1.93	0.0E+00	BE794412.1	EST_HUMAN	P42694 HYPOTHETICAL PROTEIN KIAA0084 ;
5301	18106	30766	1.93	0.0E+00	BE794412.1	EST_HUMAN	601589422F1 NIH_MGC 7 Homo sapiens cDNA clone IMAGE:3943804 5'
							601589422F1 NIH_MGC 7 Homo sapiens cDNA clone IMAGE:3943804 5'
5302	18107	30767	0.81	0.0E+00	AI189142.1	EST_HUMAN	qd04a04.x1 Soares placenta 8to9weeks_2Nbl-IP8to9W Homo sapiens cDNA clone IMAGE:1722702 3'
5306	18111	30770	6.17	0.0E+00	M29908.1	NT	similar to SW:T2D3_DROME P49846 TRANSCRIPTION INITIATION FACTOR TFIIID 85 KD SUBUNIT ;
5319	25068	30780	4.68	0.0E+00	11421038	NT	Homo sapiens eosinophil peroxidase (EPP) gene, exon 7
5329	18132		7.18	0.0E+00	BF665962.1	EST_HUMAN	Homo sapiens Sp4 transcription factor (SP4), mRNA
5330	18133	30791	0.73	0.0E+00	AF134406.1	EST_HUMAN	602118929F1 NIH_MGC 56 Homo sapiens cDNA clone IMAGE:4276254 5'
5330	18133	30792	0.73	0.0E+00	AU134406.1	EST_HUMAN	AU134406 OVARC1 Homo sapiens cDNA clone OVARC1001894 5'
5335	18138	30799	1	0.0E+00	BE538857.1	EST_HUMAN	AU134406 OVARC1 Homo sapiens cDNA clone OVARC1001894 5'
5344	18147	30826	1.07	0.0E+00	BE202784.1	EST_HUMAN	601061489F1 NIH_MGC_10 Homo sapiens cDNA clone IMAGE:3447839 5'
5348	18151	30831	1.69	0.0E+00	BF526328.1	EST_HUMAN	601105891F1 NIH_MGC_15 Homo sapiens cDNA clone IMAGE:2888310 5'
5348	18151	30832	1.69	0.0E+00	BF526328.1	EST_HUMAN	602071372F1 NCL_CGAP_Bm64 Homo sapiens cDNA clone IMAGE:4214272 5'
5367	18491	32513	1.82	0.0E+00	4557364	NT	602071372F1 NCL_CGAP_Bm64 Homo sapiens cDNA clone IMAGE:4214272 5'
5370	18171	30858	0.91	0.0E+00	AB007935.1	NT	Homo sapiens Bloom syndrome (BLM) mRNA
							Homo sapiens mRNA for KIAA0466 protein, partial cds

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
5370	18171	30859	0.91	0.0E+00	AB007935.1	NT	Homo sapiens mRNA for KIAA0466 protein, partial cds
5374	18174	30863	4.85	0.0E+00	AF257737.1	NT	Homo sapiens ciliary dynein heavy chain 9 (DNAH9) mRNA, complete cds
5374	18174	30864	4.85	0.0E+00	AF257737.1	NT	Homo sapiens ciliary dynein heavy chain 9 (DNAH9) mRNA, complete cds
5387	18187	30878	1.06	0.0E+00	D26535.1	NT	Human gene for dihydrolipoamide succinyltransferase, complete cds (exon 1-15)
5387	18187	30879	1.06	0.0E+00	D26535.1	NT	Human gene for dihydrolipoamide succinyltransferase, complete cds (exon 1-15)
5401	18201	30906	1.88	0.0E+00	11420819	NT	Homo sapiens olfactory receptor, family 2, subfamily F, member 1 (OR2F1), mRNA
5407	18206	30912	0.81	0.0E+00	Z38133.1	NT	H. sapiens mRNA for myosin
5426	18225	30936	0.78	0.0E+00	D61564.1	EST_HUMAN	HUM418D05B Clontech human fetal brain polyA+ mRNA (#6535) Homo sapiens cDNA clone GEN-418D05
5426	18225	30937	0.78	0.0E+00	D61564.1	EST_HUMAN	HUM418D05B Clontech human fetal brain polyA+ mRNA (#6535) Homo sapiens cDNA clone GEN-418D05
5429	18228	30941	2.55	0.0E+00	BF529931.1	EST_HUMAN	602042322F1 NCI CGAP_Bm67 Homo sapiens cDNA clone IMAGE:4179988 5'
5429	18228	30942	2.55	0.0E+00	BF529931.1	EST_HUMAN	602042322F1 NCI CGAP_Bm67 Homo sapiens cDNA clone IMAGE:4179988 5'
5434	18233	30946	2.92	0.0E+00	BF313139.1	EST_HUMAN	601897658F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:4126816 5'
5445	18244	31132	4.37	0.0E+00	11434392	NT	Homo sapiens calcium channel, voltage-dependent, alpha 1G subunit (CACNA1G), mRNA
5477	18276	31171	1.15	0.0E+00	BE260777.1	EST_HUMAN	601150252F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:3502909 5'
5486	18285		3.51	0.0E+00	AW867316.1	EST_HUMAN	MRO-SN0037-030400-001-h07 SN0037 Homo sapiens cDNA
5500	18298	31196	2.33	0.0E+00	BE292889.1	EST_HUMAN	601105291F1 NIH_MGC_15 Homo sapiens cDNA clone IMAGE:2987903 5'
5500	18298	31197	2.33	0.0E+00	BE292889.1	EST_HUMAN	601105291F1 NIH_MGC_15 Homo sapiens cDNA clone IMAGE:2987903 5'
5521	18319	31219	1.51	0.0E+00	11420819	NT	Homo sapiens olfactory receptor, family 2, subfamily F, member 1 (OR2F1), mRNA
5521	18319	31220	1.51	0.0E+00	11420819	NT	Homo sapiens olfactory receptor, family 2, subfamily F, member 1 (OR2F1), mRNA
5528	18326	31228	4.35	0.0E+00	AF064254.1	NT	Homo sapiens very long-chain acyl-CoA synthetase homolog 1 mRNA, complete cds
5528	18326	31229	4.35	0.0E+00	AF064254.1	NT	Homo sapiens very long-chain acyl-CoA synthetase homolog 1 mRNA, complete cds
5535	18333	31239	2.95	0.0E+00	AJ224639.1	NT	Homo sapiens Surf-5 and Surf-6 genes
5535	18333	31240	2.95	0.0E+00	AJ224639.1	NT	Homo sapiens Surf-5 and Surf-6 genes
5566	18363	31271	0.61	0.0E+00	A1198515.1	EST_HUMAN	q194g10.x1 Soares placenta 8609weeks_2NBHP869W Homo sapiens cDNA clone IMAGE:1757730 3'
5570	18367	31277	6.98	0.0E+00	M85719.1	EST_HUMAN	similar to SW:CADC_HUMAN P55289 BRAIN-CADHERIN PRECURSOR :
5577	18374	31286	4.83	0.0E+00	AW405472.1	EST_HUMAN	EST02238 Fetal brain, Stratagene (caif936206) Homo sapiens cDNA clone HFBGM48
5590	18386	31296	1.25	0.0E+00	Z26269.1	NT	UI-HF-BL0-adh-4-02-0-UI.r1 NIH_MGC_37 Homo sapiens cDNA clone IMAGE:3061658 5'
5601	18396	31306	1.94	0.0E+00	AW361877.1	EST_HUMAN	H. sapiens isoform 1 gene for L-type calcium channel, exon 14 adhd 15
5601	18396	31307	1.94	0.0E+00	AW361877.1	EST_HUMAN	PM3-CT0263-091299-007-h05 CT0263 Homo sapiens cDNA
5601	18396	31308	1.94	0.0E+00	AW361877.1	EST_HUMAN	PM3-CT0263-091299-007-h05 CT0263 Homo sapiens cDNA
5605	18401	31315	2.55	0.0E+00	U36261.1	NT	Human beta-prime-adaptin (BAM22) gene, exon 13

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
5636	18431	31344	1.03	0.0E+00	AB046881.1	NT	Homo sapiens mRNA for KIAA1641 protein, partial cds
5691	18485	31404	1.56	0.0E+00	AJ006345.1	NT	Homo sapiens KVLQT1 gene
5691	18485	31405	1.56	0.0E+00	AJ006345.1	NT	Homo sapiens KVLQT1 gene
5699	18493	31416	1.19	0.0E+00	AJ207616.1	EST_HUMAN	HA2981 Human fetal liver cDNA library Homo sapiens cDNA
5717	18509	31430	5.23	0.0E+00	11416801	NT	Homo sapiens protocadherin beta 2 (PCDH2), mRNA
5722	18514	31433	1.21	-0.0E+00	BE791173.1	EST_HUMAN	601584032F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3938551 5'
5731	18523	31444	1.13	0.0E+00	9998943	NT	Homo sapiens amiloride-sensitive cation channel 1, neuronal (degenerin) (ACCN1), mRNA
5732	18524	31445	6.59	0.0E+00	BE560082.1	EST_HUMAN	601345141F1 NIH_MGC_8 Homo sapiens cDNA clone IMAGE:3677843 5'
5733	18525	31446	1.67	0.0E+00	10048478	NT	Mus musculus aczonin (Acz), mRNA
5734	18526	31447	4.05	0.0E+00	U86961.1	NT	Human L-type calcium channel beta-1 subunit (CACNLB1) gene, exon 13B and isoform beta-1B, complete cds
5734	18526	31448	4.05	0.0E+00	U86961.1	NT	Human L-type calcium channel beta-1 subunit (CACNLB1) gene, exon 13B and isoform beta-1B, complete cds
5752	18544	31466	2.28	0.0E+00	BF338835.1	EST_HUMAN	602036272F1 NCI_CGAP_Bim64 Homo sapiens cDNA clone IMAGE:4184321 5'
5756	18548	31469	1.03	0.0E+00	AF142621.1	NT	Homo sapiens calcium channel gamma 5 subunit (CACNG5) gene, exon 4 and complete cds
5757	18549	31470	3.06	0.0E+00	BE273983.1	EST_HUMAN	601104462F1 NIH_MGC_14 Homo sapiens cDNA clone IMAGE:3347463 5'
5768	18559	31486	0.88	0.0E+00	BE503096.1	EST_HUMAN	h283d11.x1 NCI_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3214581 3' similar to TR:Q62084 Q62084
5773	18564	31493	1.87	0.0E+00	BF569905.1	EST_HUMAN	PHOSPHOLIPASE C NEIGHBORING ;
5778	18569	31497	1.21	0.0E+00	AA454642.1	EST_HUMAN	602185652F1 NIH_MGC_48 Homo sapiens cDNA clone IMAGE:4310076 5'
5811	18600	31528	2.38	0.0E+00	AF217289.1	NT	z099d06.s1 Soares_NhrHMPu_S1 Homo sapiens cDNA clone IMAGE:811883 3'
5813	18602	31530	1.75	0.0E+00	BE828144.1	EST_HUMAN	Homo sapiens cadherin 20 (CDH20) mRNA, complete cds
5818	18607	31535	2.27	0.0E+00	BE958636.1	EST_HUMAN	RC5-ET0027-210900-022-G10 E10027 Homo sapiens cDNA
5831	18620	31552	0.55	0.0E+00	BE673986.1	EST_HUMAN	601645287F1 NIH_MGC_58 Homo sapiens cDNA clone IMAGE:3930453 5'
5831	18620	31553	0.55	0.0E+00	BE673986.1	EST_HUMAN	7472e11.x1 NCI_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3278540 3' similar to SW:DAX1_HUMAN
5836	18625	31559	1.14	0.0E+00	AW276760.1	EST_HUMAN	P61843 ORPHAN NUCLEAR RECEPTOR DAX-1 [1] ;
5847	18634	31571	1.16	0.0E+00	BF031742.1	EST_HUMAN	7472e11.x1 NCI_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3278540 3' similar to SW:DAX1_HUMAN
5847	18634	31572	1.16	0.0E+00	BF031742.1	EST_HUMAN	P51843 ORPHAN NUCLEAR RECEPTOR DAX-1 [1] ;
5859	18646	31587	0.58	0.0E+00	AW470846.1	EST_HUMAN	xp65f03.x1 NCI_CGAP_Qv39 Homo sapiens cDNA clone IMAGE:2745245 3' similar to TR:P78335 P78335
5872	18659	31599	0.77	0.0E+00	BF155670.1	EST_HUMAN	GUANYLATE KINASE ASSOCIATED PROTEIN ;
							601558060F1 NIH_MGC_58 Homo sapiens cDNA clone IMAGE:3827775 5'
							601558060F1 NIH_MGC_58 Homo sapiens cDNA clone IMAGE:3827775 5'
							h234406.x1 NCI_CGAP_Kid12 Homo sapiens cDNA clone IMAGE:2875595 3' similar to TR:Q9Z1N3
							Q9Z1N3 MYOSIN-RHOGAP PROTEIN, MYR 7 ;
							QV4-HT0894-290900-399-a10 HT0894 Homo sapiens cDNA

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Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
5872	18659	31600	0.77	0.0E+00	BF155670.1	EST_HUMAN	QV44HT0894-290900-399-a10 H70994 Homo sapiens cDNA
5878	18664	31604	3.22	0.0E+00	W33069.1	EST_HUMAN	z08h08.r1 Soares parathyroid tumor_NbHPA Homo sapiens cDNA clone IMAGE:321755 5'
5878	18664	31605	3.22	0.0E+00	W33069.1	EST_HUMAN	z08h08.r1 Soares parathyroid tumor_NbHPA Homo sapiens cDNA clone IMAGE:321755 5'
5879	18665		2.51	0.0E+00	AF012618.1	NT	Homo sapiens familial mental retardation protein 2 (FMR2) gene, exon 14
5882	18668	31609	3.33	0.0E+00	BE280197.1	EST_HUMAN	601158515F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3505323 5'
5890	18675	31620	2.6	0.0E+00	BE889610.1	EST_HUMAN	601512630F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3960200 5'
5905	18690	31639	0.6	0.0E+00	AW752848.1	EST_HUMAN	IL3-CT0220-111189-028-E04 CT0220 Homo sapiens cDNA
5908	18692	31641	1.1	0.0E+00	11433071	NT	Homo sapiens KIAA0735 gene product, synaptic vesicle protein 2B homolog (KIAA0735), mRNA
5908	18692	31642	1.1	0.0E+00	11433071	NT	Homo sapiens KIAA0735 gene product, synaptic vesicle protein 2B homolog (KIAA0735), mRNA
5909	18693	31643	0.88	0.0E+00	BE901608.1	EST_HUMAN	601677735F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3960200 5'
5909	18693	31644	0.88	0.0E+00	BE901608.1	EST_HUMAN	601677735F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3960200 5'
5909	18693	31645	0.88	0.0E+00	BE901608.1	EST_HUMAN	601677735F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3960200 5'
5923	25081	31661	10.66	0.0E+00	9789986	NT	Homo sapiens potassium voltage-gated channel, Shal-related subfamily, member 2 (KCND2), mRNA
5926	18710	31664	1.2	0.0E+00	AA193506.1	EST_HUMAN	z40h01.r1 Soares NIHMPu_S1 Homo sapiens cDNA clone IMAGE:665905 5' similar to SW:YY05_HUMAN P42694 HYPOTHETICAL MYELOID CELL LINE PROTEIN 5.;
5926	18710	31665	1.2	0.0E+00	AA193506.1	EST_HUMAN	z40h01.r1 Soares NIHMPu_S1 Homo sapiens cDNA clone IMAGE:665905 5' similar to SW:YY05_HUMAN P42694 HYPOTHETICAL MYELOID CELL LINE PROTEIN 5.;
5948	18730	31689	16.77	0.0E+00	U34625.1	NT	Human T cell surface glycoprotein CD-6 mRNA, complete cds
5948	18730	31690	16.77	0.0E+00	U34625.1	NT	Human T cell surface glycoprotein CD-6 mRNA, complete cds
5987	18768	31732	0.99	0.0E+00	BE268330.1	EST_HUMAN	601114823F1 NIH_MGC_16 Homo sapiens cDNA clone IMAGE:3355565 5'
5987	18768	31732	0.99	0.0E+00	BE268330.1	EST_HUMAN	601114823F1 NIH_MGC_16 Homo sapiens cDNA clone IMAGE:3355565 5'
5987	18768	31740	1.2	0.0E+00	BE156561.1	EST_HUMAN	601114823F1 NIH_MGC_16 Homo sapiens cDNA clone IMAGE:3355565 5'
6007	18788	31750	0.85	0.0E+00	M38107.1	NT	Human neurofibromatosis type 1 (NF-1) mRNA, 3' end of cds
6040	18820	31781	1.32	0.0E+00	BE379007.1	EST_HUMAN	601236276F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3608490 5'
6046	18826	31787	1.39	0.0E+00	AU137772.1	EST_HUMAN	601236276F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3608490 5'
6066	18845	31809	3.76	0.0E+00	U45982.1	NT	Human G protein-coupled receptor GPR-9-6 gene, complete cds
6094	18872	31839	4.52	0.0E+00	AA204740.1	EST_HUMAN	z081d03.r1 Stratagene hNT neuron (#937233) Homo sapiens cDNA clone IMAGE:648005 5' similar to TR:G854195 G854195 LEUKOCYTE SURFACE PROTEIN.;
6095	18873	31840	3.97	0.0E+00	11545913	NT	Homo sapiens xylosyltransferase II (XT2), mRNA
6095	18873	31841	3.97	0.0E+00	11545913	NT	Homo sapiens xylosyltransferase II (XT2), mRNA
6129	18907	31875	1.14	0.0E+00	11426367	NT	Homo sapiens carcinoembryonic antigen-related cell adhesion molecule 8 (CEACAM8), mRNA
6133	18911	31880	2.87	0.0E+00	BE257173.1	EST_HUMAN	601109532F1 NIH_MGC_16 Homo sapiens cDNA clone IMAGE:3350822 5'
6147	18924		0.85	0.0E+00	AI686048.1	EST_HUMAN	189110.x1 NCLCGAP_P128 Homo sapiens cDNA clone IMAGE:2248839 3' similar to TR:Q14839 Q14839 MI-2 PROTEIN.;

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6151	18928	31897	1.53	0.0E+00	L35930.1	NT	Human anion exchanger (AE1) gene, exons 1-20
6159	18936	31903	1.22	0.0E+00	BE797385.1	EST_HUMAN	601587971F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3942329 5'
6159	18936	31904	1.22	0.0E+00	BE797385.1	EST_HUMAN	601587971F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3942329 5'
6170	18947	31919	0.57	0.0E+00	A1198025.1	EST_HUMAN	q150b11.x1 NCL_CGAP_Brn25 Homo sapiens cDNA clone IMAGE:1659901 3' similar to TR:Q12838 Q12838 TFIIIC ALPHA SUBUNIT ;
6170	18947	31920	0.57	0.0E+00	A1198025.1	EST_HUMAN	q150b11.x1 NCL_CGAP_Brn25 Homo sapiens cDNA clone IMAGE:1659901 3' similar to TR:Q12838 Q12838 TFIIIC ALPHA SUBUNIT ;
6172	18949	31921	0.95	0.0E+00	BF357123.1	EST_HUMAN	MR0-HT0923-220800-102-b05 HT0923 Homo sapiens cDNA
6180	18957	31931	1.08	0.0E+00	11436630	NT	Homo sapiens peptidase transporter 3 (LOC51296), mRNA
6189	18966	31939	0.65	0.0E+00	D55649.1	NT	Human mRNA for alpha mannosidase II isozyme, complete cds
6207	18982	31961	1.03	0.0E+00	AW178142.1	EST_HUMAN	IL3-HT0062-010999-014-A04 HT0062 Homo sapiens cDNA
6226	19002	31978	0.68	0.0E+00	BE74544.1	EST_HUMAN	7e02c12.x1 NCL_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3281302 3' similar to SW:Y176_HUMAN
6232	19006	31983	1.33	0.0E+00	7682039	NT	Q14681 HYPOTHETICAL PROTEIN KIAA0176 ;
6246	19020	32003	8.59	0.0E+00	AV650020.1	EST_HUMAN	Homo sapiens KIAA0285 gene product (KIAA0285), mRNA
6254	19028	32003	3.13	0.0E+00	AW575598.1	EST_HUMAN	AV650020 GLO Homo sapiens cDNA clone GLCCAD09 3'
6257	19031	32006	6.26	0.0E+00	H01255.1	EST_HUMAN	UI-HF-BL0-acc-g-12-D-UI.s1 NIH_MGC_37 Homo sapiens cDNA clone IMAGE:3068761 3'
6269	19042	32019	1.6	0.0E+00	X15377.1	NT	Y27b03.r1 Soares placenta Nb2HP Homo sapiens cDNA clone IMAGE:149933 5'
6271	19044	32021	0.65	0.0E+00	AA456375.1	EST_HUMAN	Human gene for the light and heavy chains of myeloperoxidase
6272	19045	32022	1.3	0.0E+00	AI612841.1	EST_HUMAN	ea14607.r1 Soares_NHMPu_S1 Homo sapiens cDNA clone IMAGE:813252 5'
6278	19051	32028	4.71	0.0E+00	BE735999.1	EST_HUMAN	tz57d08.x1 NCL_CGAP_Ov35 Homo sapiens cDNA clone IMAGE:2292687 3' similar to SW:NTCS_HUMAN
6278	19051	32028	4.71	0.0E+00	BE735999.1	EST_HUMAN	P63796 SODIUM- AND CHLORIDE-DEPENDENT CREATINE TRANSPORTER 2 ;
6282	19055	32035	0.86	0.0E+00	AW748596.1	EST_HUMAN	601305368F1 NIH_MGC_39 Homo sapiens cDNA clone IMAGE:3639816 5'
6282	19055	32036	0.86	0.0E+00	AW748596.1	EST_HUMAN	601305368F1 NIH_MGC_39 Homo sapiens cDNA clone IMAGE:3639816 5'
6283	19056	32038	0.6	0.0E+00	U77629.1	NT	MR0-BT0264-221199-002-f11 BT0264 Homo sapiens cDNA
6285	19058	32038	15.59	0.0E+00	AU119245.1	EST_HUMAN	MR0-BT0264-221199-002-f11 BT0264 Homo sapiens cDNA
6285	19058	32039	15.59	0.0E+00	AU119245.1	EST_HUMAN	Homo sapiens Achaete-Scute homologue 2 (ASCL2) gene, complete cds
6289	19062	32044	0.8	0.0E+00	BE780453.1	EST_HUMAN	AU119245 HEMBA1 Homo sapiens cDNA clone HEMBA1005360 5'
6290	19063	32045	1.12	0.0E+00	X92217.1	NT	AU119245 HEMBA1 Homo sapiens cDNA clone HEMBA1005360 5'
6304	19076	32062	1.52	0.0E+00	A1969483.1	EST_HUMAN	601468712F1 NIH_MGC_87 Homo sapiens cDNA clone IMAGE:3871899 5'
6317	19088	32072	6.91	0.0E+00	BE293153.1	EST_HUMAN	H.sapiens germ-line immunoglobulin heavy chain, variable region, (13-2)
6317	19088	32073	6.91	0.0E+00	BE293153.1	EST_HUMAN	ws25c07.x1 NCL_CGAP_GC8 Homo sapiens cDNA clone IMAGE:2498220 3'
6317	19088	32073	6.91	0.0E+00	BE293153.1	EST_HUMAN	601105344F1 NIH_MGC_15 Homo sapiens cDNA clone IMAGE:2887963 5'
6317	19088	32073	6.91	0.0E+00	BE293153.1	EST_HUMAN	601105344F1 NIH_MGC_15 Homo sapiens cDNA clone IMAGE:2887963 5'

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Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
6355	19125	32119	0.58	0.0E+00	BF057438.1	EST_HUMAN	7k43h05.x1 NCL_CGAP_OV18 Homo sapiens cDNA clone IMAGE:3478496 3' similar to TR:O14553 O14553
6388	19157	32157	1.89	0.0E+00	AW406348.1	EST_HUMAN	R31240_1;
6388	19157	32158	1.89	0.0E+00	AW406348.1	EST_HUMAN	UI-HF-BL0-eco-H-02-0-UI.r1 NIH_MGC_37 Homo sapiens cDNA clone IMAGE:305931 5'
6418	19186	32184	0.79	0.0E+00	AV719444.1	EST_HUMAN	UI-HF-BL0-eco-H-02-0-UI.r1 NIH_MGC_37 Homo sapiens cDNA clone IMAGE:305931 5'
6427	19195	32191	0.98	0.0E+00	BE898340.1	EST_HUMAN	AV719444 GLC Homo sapiens cDNA clone IMAGE:305931 5'
6427	19195	32192	0.98	0.0E+00	BE898340.1	EST_HUMAN	601681150F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3951301 5'
6430	19188	32195	2.24	0.0E+00	AF190860.1	NT	601681150F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3951301 5'
6433	19201	32197	1.17	0.0E+00	11420658	NT	Homo sapiens low voltage-activated T-type calcium channel alpha 1G splice variant CavT.1a (CACNA1G) mRNA, complete cds
6440	19208	32204	7.5	0.0E+00	AW163640.1	EST_HUMAN	Homo sapiens transformation/transcription domain-associated protein (TRRAP), mRNA
6440	19208	32205	7.5	0.0E+00	AW163640.1	EST_HUMAN	au86h08.Y1 Schneider fetal brain 00004 Homo sapiens cDNA clone IMAGE:2784159 5' similar to TR:O15390 O15390 GT24. [3] TR:O43840 TR:O43206
6444	19212	32208	0.97	0.0E+00	W37163.1	EST_HUMAN	au86h08.Y1 Schneider fetal brain 00004 Homo sapiens cDNA clone IMAGE:2784159 5' similar to TR:O15390 O15390 GT24. [3] TR:O43840 TR:O43206
6444	19212	32209	0.97	0.0E+00	W37163.1	EST_HUMAN	zb20a06.r1 Soares_fetal_lung_NbHL19W Homo sapiens cDNA clone IMAGE:302626 5' similar to SW:ZN45_HUMAN Q02386 ZINC FINGER PROTEIN 45
6453	19226	32226	1.08	0.0E+00	BE794853.1	EST_HUMAN	SW:ZN45_HUMAN Q02386 ZINC FINGER PROTEIN 45
6466	19233	32233	5.81	0.0E+00	BE799873.1	EST_HUMAN	601589371F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3943504 5'
6467	19234	32234	0.56	0.0E+00	BE767955.1	EST_HUMAN	601589371F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3943504 5'
6467	19234	32235	0.56	0.0E+00	BE767955.1	EST_HUMAN	QV1-GN0065-140800-318-H02 GN0065 Homo sapiens cDNA
6471	19238	32238	6.95	0.0E+00	BE869813.1	EST_HUMAN	QV1-GN0065-140800-318-H02 GN0065 Homo sapiens cDNA
6471	19238	32239	6.95	0.0E+00	BE869813.1	EST_HUMAN	601512058F1 NIH_MGC_71 Homo sapiens cDNA clone IMAGE:3913311 5'
6480	19247	32247	5.62	0.0E+00	L24493.1	NT	601512058F1 NIH_MGC_71 Homo sapiens cDNA clone IMAGE:3913311 5'
6485	19252	32251	1.98	0.0E+00	AL163204.2	NT	Human antigen CD27 gene, exons 1-2
6485	19252	32252	1.98	0.0E+00	AL163204.2	NT	Homo sapiens chromosome 21 segment HS21C004
6491	19258	32259	4.06	0.0E+00	6005983	NT	Homo sapiens chromosome 21 segment HS21C004
6494	19260	32261	4.76	0.0E+00	AI638412.1	EST_HUMAN	HS21C004
6495	19261	32262	1.36	0.0E+00	L32632.1	NT	HS21C004
6507	19272	32273	4.12	0.0E+00	AA434594.1	EST_HUMAN	HS21C004
6520	19286		0.99	0.0E+00	BF217200.1	EST_HUMAN	Homo sapiens zinc finger homeodomain protein (ATBF1-A) mRNA, complete cds
6523	19289	32293	1.82	0.0E+00	BE925875.1	EST_HUMAN	zw52c03.r1 Soares_fetal_lung_NbHL19W Homo sapiens cDNA clone IMAGE:3913311 5'
							601885317F1 NIH_MGC_57 Homo sapiens cDNA clone IMAGE:4103633 5'
							QV3-BN0047-300800-278-c06 BN0047 Homo sapiens cDNA

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6554	19319	32325	1.11	0.0E+00	11426758	NT	Homo sapiens solute carrier family 1 (high affinity aspartate/glutamate transporter), member 6 (SLC1A6), mRNA
6554	19319	32326	1.11	0.0E+00	11426758	NT	Homo sapiens solute carrier family 1 (high affinity aspartate/glutamate transporter), member 6 (SLC1A6), mRNA
6571	19335	32346	1.6	0.0E+00	AU125928.1	EST_HUMAN	AU125928 NT2RM4 Homo sapiens cDNA clone NT2RM4002430 5'
6573	19337	32348	1.88	0.0E+00	BE701434.1	EST_HUMAN	PM2-NN0174-260700-001-H10 NN0174 Homo sapiens cDNA
6573	19337	32349	1.88	0.0E+00	BE701434.1	EST_HUMAN	PM2-NN0174-260700-001-H10 NN0174 Homo sapiens cDNA
6594	19357	32371	1.67	0.0E+00	BE142363.1	EST_HUMAN	CM0-HT0143-270999-062-d08 HT0143 Homo sapiens cDNA
6614	19377	32391	1.44	0.0E+00	BE006012.1	EST_HUMAN	RC0-BN0121-280300-032-e04 BN0121 Homo sapiens cDNA
6614	19377	32392	1.44	0.0E+00	BE006012.1	EST_HUMAN	RC0-BN0121-280300-032-e04 BN0121 Homo sapiens cDNA
6638	19400	32415	8.38	0.0E+00	BE169131.1	EST_HUMAN	PM3-HT0520-230200-002-c08 HT0520 Homo sapiens cDNA
6640	19402	32417	1.83	0.0E+00	BF085867.1	EST_HUMAN	IL5-GN0032-180900-145-d07 GN0032 Homo sapiens cDNA
6678	19595	32633	3.49	0.0E+00	AA190755.1	EST_HUMAN	zp88e03.11 Striatogene HeLa cell s3 937216 Homo sapiens cDNA clone IMAGE:627292 5'
6690	19607	32647	0.94	0.0E+00	U39573.1	NT	Human salivary peroxidase mRNA, complete cds
6693	19610	32649					7449607.x1 NCI_CGAP_G06 Homo sapiens cDNA clone IMAGE:3222037 3' similar to TR:Q8Z285 Q8Z285
6703	19618	32660	0.91	0.0E+00	BE671987.1	EST_HUMAN	TEKTIN.1
6703	19618	32661	6.69	0.0E+00	A1940621.1	EST_HUMAN	IL3-ST0024-230799-001-B01 ST0024 Homo sapiens cDNA
6714	19629	32674	6.69	0.0E+00	A1940621.1	EST_HUMAN	IL3-ST0024-230799-001-B01 ST0024 Homo sapiens cDNA
6726	19560	32592	1.91	0.0E+00	11435626	NT	Homo sapiens CD6 antigen (CD6), mRNA
6729	19563	32595	0.99	0.0E+00	AL042443.1	EST_HUMAN	DKFZp434D2021.1 434 (synonym: htes3) Homo sapiens cDNA clone DKFZp434D2021 5'
6734	19568	32600	0.9	0.0E+00	A1168270.1	EST_HUMAN	0010001.x1 Soares NSF F8 gW_QT_PA_P_S1 Homo sapiens cDNA clone IMAGE:1565761 3' similar to
6752	17921	30556	0.83	0.0E+00	BE734087.1	EST_HUMAN	TR:Q26623 Q26623 TEKTIN C1.1
6761	17930	30565	1.68	0.0E+00	BE566381.1	EST_HUMAN	601567370F1 NIH_MGC 21 Homo sapiens cDNA clone IMAGE:3842080 5'
6761	17930	30566	11.84	0.0E+00	BE867889.1	EST_HUMAN	601339977F1 NIH_MGC 53 Homo sapiens cDNA clone IMAGE:3682267 5'
6766	19510	32535	11.84	0.0E+00	BE867889.1	EST_HUMAN	601443667F1 NIH_MGC 65 Homo sapiens cDNA clone IMAGE:3847697 5'
6766	19510	32535	2.2	0.0E+00	BE550162.1	EST_HUMAN	601443667F1 NIH_MGC 65 Homo sapiens cDNA clone IMAGE:3847697 5'
6766	19510	32536	2.2	0.0E+00	BE550162.1	EST_HUMAN	7649f03.x1 NCI_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3231581 3' similar to SW:GG95_HUMAN
6790	19534	32562	1.25	0.0E+00	BF088376.1	EST_HUMAN	Q08379 GOLGIN-95.1
6796	19540	32568	2.48	0.0E+00	AA195106.1	EST_HUMAN	Q08379 GOLGIN-95.1
6803	19464		12.37	0.0E+00	11034810	NT	CM1-HT0877-060900-397-g11 HT0877 Homo sapiens cDNA zr34g03.r1 Soares NIH-MP_u_S1 Homo sapiens cDNA clone IMAGE:365332 5' Homo sapiens catenin (cadherin-associated protein), delta 2 (neural plakophilin-related arm-repeat protein) (CTNND2), mRNA

Single Exon Probes Expressed in Brain

Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
6805	19468	32487	1.08	0.0E+00	11431474	NT	Homo sapiens sodium channel, nonvoltage-gated 1, beta (Liddle syndrome) (SCNN1B), mRNA
6807	19468	32490	0.6	0.0E+00	BE313075.1	EST_HUMAN	601150662F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:3503391 5'
6807	19468	32491	0.6	0.0E+00	BE313075.1	EST_HUMAN	601150662F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:3503391 5'
6822	19483	32505	2.69	0.0E+00	BF569905.1	EST_HUMAN	602185852F1 NIH_MGC_45 Homo sapiens cDNA clone IMAGE:4310076 5'
6837	19489		2.32	0.0E+00	103069.1	NT	Human MYC12 gene, complete cds
6845	19545	32573	3.52	0.0E+00	AF217289.1	NT	Homo sapiens cadherin 20 (CDH20) mRNA, complete cds
6845	19545	32574	3.52	0.0E+00	AF217289.1	NT	Homo sapiens cadherin 20 (CDH20) mRNA, complete cds
6846	19546	32575	1.18	0.0E+00	M38113.1	NT	Human neurofibromatosis type 1 gene, exon x6
6858	17635	30571	3.2	0.0E+00	11420775	NT	Homo sapiens melanoma antigen, family B, 2 (MAGEB2), mRNA
6859	17636	30572	0.74	0.0E+00	AI419969.1	EST_HUMAN	ig53c06.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2112490 3' similar to SW:OXYB_HUMAN P22059 OXYSTEROL-BINDING PROTEIN ;
6859	17636	30573	0.74	0.0E+00	AI419969.1	EST_HUMAN	ig53c06.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2112490 3' similar to SW:OXYB_HUMAN P22059 OXYSTEROL-BINDING PROTEIN ;
6863	17640	30576	0.78	0.0E+00	BE256708.1	EST_HUMAN	601115515F1 NIH_MGC_16 Homo sapiens cDNA clone IMAGE:3356330 5'
6874	17650	30548	0.58	0.0E+00	BE904955.1	EST_HUMAN	601496743F1 NIH_MGC_70 Homo sapiens cDNA clone IMAGE:3898739 5'
6884	17660	30514	1.05	0.0E+00	AU118478.1	EST_HUMAN	AU118478 HEMBA1 Homo sapiens cDNA clone HEMBA1003679 5'
6887	17663	30518	8.08	0.0E+00	BE262941.1	EST_HUMAN	601148954F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:3501829 5'
6888	17664	30519	2.26	0.0E+00	Z37976.1	NT	H. sapiens mRNA for latent transforming growth factor-beta binding protein (LTBP-2)
6888	17664	30520	2.26	0.0E+00	Z37976.1	NT	H. sapiens mRNA for latent transforming growth factor-beta binding protein (LTBP-2)
6889	17665	30521	3.26	0.0E+00	AF257737.1	NT	Homo sapiens ciliary dynein heavy chain 9 (DNAH9) mRNA, complete cds
6889	17665	30522	3.26	0.0E+00	AF257737.1	NT	Homo sapiens ciliary dynein heavy chain 9 (DNAH9) mRNA, complete cds
6894	17670	30527	1.06	0.0E+00	AF310105.1	NT	Homo sapiens NALP1 mRNA, complete cds
6899	19637	32681	1.03	0.0E+00	BE76270.1	EST_HUMAN	QV3-NT0022-140600-223-701 NT0022 Homo sapiens cDNA
6904	19642	32687	2.37	0.0E+00	BF569905.1	EST_HUMAN	602185852F1 NIH_MGC_45 Homo sapiens cDNA clone IMAGE:4310076 5'
6908	19646	32692	4.53	0.0E+00	L01978.1	NT	Human type IV sodium channel alpha polypeptide (SCN4A) gene, exon 19
6913	19650	32696	0.79	0.0E+00	AW502362.1	EST_HUMAN	U1-HF-BR0p-aka-d-10-O-U1.1 NIH_MGC_52 Homo sapiens cDNA clone IMAGE:3076290 5'
6913	19650	32697	0.79	0.0E+00	AW502362.1	EST_HUMAN	U1-HF-BR0p-aka-d-10-O-U1.1 NIH_MGC_52 Homo sapiens cDNA clone IMAGE:3076290 5'
6922	19658	32704	0.7	0.0E+00	AL039581.1	EST_HUMAN	DKFZp434D2211.1 434 (synonym: hies3) Homo sapiens cDNA clone DKFZp434D2211 5'
6922	19658	32705	0.7	0.0E+00	AL039581.1	EST_HUMAN	DKFZp434D2211.1 434 (synonym: hies3) Homo sapiens cDNA clone DKFZp434D2211 5'
6929	19665	32711	5.87	0.0E+00	BF306996.1	EST_HUMAN	601889823F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:4123948 5'
6934	19669	32715	2.33	0.0E+00	U41302.1	NT	Human chromosome 16 creatine transporter (SLC6A8) and (CDM) paralogous genes, complete cds
6972	19454	32474	1.18	0.0E+00	AL049784.1	NT	Novel human gene mapping to chromosome 13
7008	19700	32764	0.65	0.0E+00	AB026893.1	NT	Homo sapiens mRNA for vascular cadherin-2, complete cds

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
7008	19700	32755	0.85	0.0E+00	AB026893.1	NT	Homo sapiens mRNA for vascular cadherin-2, complete cds
7013	19705	32761	1.07	0.0E+00	AU137738.1	EST_HUMAN	AU137738 PLACE1 Homo sapiens cDNA clone PLACE1007120 5'
7013	19705	32762	1.07	0.0E+00	AU137738.1	EST_HUMAN	AU137738 PLACE1 Homo sapiens cDNA clone PLACE1007120 5'
7019	19711	32768	1.2	0.0E+00	AW654806.1	EST_HUMAN	EST368876 IMAGE resequences, MAGC Homo sapiens cDNA
7020	19712	32769	0.9	0.0E+00	BE254103.1	EST_HUMAN	601113958F1 NIH_MGC_16 Homo sapiens cDNA clone IMAGE:3354566 5'
7033	19725	32781	0.98	0.0E+00	L01973.1	NT	Human type VI sodium channel alpha polypeptide (SCN4A) gene, exon 14
7041	19732	32791	0.64	0.0E+00	AB007935.1	NT	Homo sapiens mRNA for KIAA0466 protein, partial cds
7041	19732	32792	0.64	0.0E+00	AB007935.1	NT	Homo sapiens mRNA for KIAA0466 protein, partial cds
7047	19738	32799	2.73	0.0E+00	AU133213.1	EST_HUMAN	AU133213 NT2RP4 Homo sapiens cDNA clone NT2RP4001558 5'
7082	19763	32818	0.95	0.0E+00	11428081	NT	Homo sapiens membrane protein CH1 (CH1), mRNA
7084	19755	32820	0.68	0.0E+00	AA312125.1	EST_HUMAN	EST182818 Jurkat T-cells V1 Homo sapiens cDNA 5' end
7069	19760	32825	2.67	0.0E+00	AU143706.1	EST_HUMAN	AU143706 Y79AA1 Homo sapiens cDNA clone Y79AA1002365 5'
7070	19761	32826	0.94	0.0E+00	4758839	NT	Homo sapiens nefin 1 (NTN1), mRNA
7079	19770	32834	1.32	0.0E+00	BE891286.1	EST_HUMAN	60143181F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3917164 5'
7079	19770	32835	1.32	0.0E+00	BE891286.1	EST_HUMAN	60143181F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3917164 5'
7100	17981	30495	2.54	0.0E+00	AF137286.1	NT	Homo sapiens keratin 12 (KRT12) gene, complete cds
7100	17981	30496	2.54	0.0E+00	AF137286.1	NT	Homo sapiens keratin 12 (KRT12) gene, complete cds
7122	19810	32876	5.01	0.0E+00	11436699	NT	Homo sapiens vitamin D (1,25-dihydroxyvitamin D3) receptor (VDR), mRNA
7122	19810	32877	5.01	0.0E+00	11436699	NT	Homo sapiens vitamin D (1,25-dihydroxyvitamin D3) receptor (VDR), mRNA
7137	19824	32891	0.55	0.0E+00	AF22744.1	NT	Homo sapiens voltage-dependent calcium channel alpha 1G subunit isoform ae (CACNA1G) mRNA, complete cds
7156	19843	32911	37.67	0.0E+00	AI128344.1	EST_HUMAN	qc67a07.x1 Soares_placenta_8tc9weeks_2NbhP8tc9w Homo sapiens cDNA clone IMAGE:1714644 3' similar to SW:ARSD_HUMAN P51689 ARYL SULFATASE D PRECURSOR, contains element HGR repetitive element;
7158	19843	32912	37.67	0.0E+00	AI128344.1	EST_HUMAN	qc67a07.x1 Soares_placenta_8tc9weeks_2NbhP8tc9w Homo sapiens cDNA clone IMAGE:1714644 3' similar to SW:ARSD_HUMAN P51689 ARYL SULFATASE D PRECURSOR, contains element HGR repetitive element;
7158	19845	32914	0.66	0.0E+00	AF227135.1	NT	Homo sapiens candidate taste receptor T2R9 gene, complete cds
7158	19845	32915	0.66	0.0E+00	AF227135.1	NT	Homo sapiens candidate taste receptor T2R9 gene, complete cds
7161	19848	32918	4.65	0.0E+00	11426392	NT	Homo sapiens myosin, heavy polypeptide 8, skeletal muscle, perinatal (MYH8), mRNA
7161	19848	32919	4.65	0.0E+00	11426392	NT	Homo sapiens myosin, heavy polypeptide 8, skeletal muscle, perinatal (MYH8), mRNA
7163	19850		15.23	0.0E+00	BF337375.1	EST_HUMAN	602035089F1 NCI_OGAP_Brn64 Homo sapiens cDNA clone IMAGE:4182839 5'
7165	19852	32921	2.85	0.0E+00	AA128453.1	EST_HUMAN	zn60709.r1 Striatogene muscle 937209 Homo sapiens cDNA clone IMAGE:562601 5' similar to TR:G806562 G806562 NEBULIN;

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Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
7170	19856	32927	0.7	0.0E+00	AL079497.1	EST_HUMAN	DKFZp434B0226_r1_434 (synonym: htes3) Homo sapiens cDNA clone DKFZp434B0226 5'
7170	19856	32928	0.7	0.0E+00	AL079497.1	EST_HUMAN	DKFZp434B0226_r1_434 (synonym: htes3) Homo sapiens cDNA clone DKFZp434B0226 5'
7208	19893	32969	1.09	0.0E+00	BE295499.1	EST_HUMAN	601174576F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:3528794 5'
7210	19895	32970	1	0.0E+00	11427963	NT	Homo sapiens hypothetical protein (FLJ20261), mRNA
7213	19898		1.42	0.0E+00	AU118607.1	EST_HUMAN	AU118607 HEMBA1 Homo sapiens cDNA clone HEMBA1003969 5'
7214	19899	32973	1.99	0.0E+00	AF005213.1	NT	Homo sapiens ankyrin 1 (ANK1) mRNA, complete cds
7214	19899	32974	1.99	0.0E+00	AF005213.1	NT	Homo sapiens ankyrin 1 (ANK1) mRNA, complete cds
7228	19911	32984	0.87	0.0E+00	AF245505.1	NT	Homo sapiens adiclin mRNA, complete cds
7232	19917	32989	8.04	0.0E+00	X70172.1	NT	H.sapiens DNA for ZNGP2 pseudogene, exon 4
7234	19919	32991	8.51	0.0E+00	U45448.1	NT	Human P2x1 receptor mRNA, complete cds
7234	19919	32992	8.51	0.0E+00	U45448.1	NT	Human P2x1 receptor mRNA, complete cds
7247	19932	33007	0.86	0.0E+00	AW968603.1	EST_HUMAN	EST368573 MAGE resequences, MAGD Homo sapiens cDNA
7249	19934	33009	0.56	0.0E+00	BE672445.1	EST_HUMAN	7a60h08.x1 NCI_CGAP_GC6 Homo sapiens cDNA clone IMAGE:3223167 3' similar to gb:M54911_rna1 IG
7250	19935	33010	2.52	0.0E+00	AW950516.1	EST_HUMAN	HEAVY CHAIN PRECURSOR V-II REGION (HUMAN);
7273	19957	33033	0.57	0.0E+00	AF001543.1	EST_HUMAN	EST362586 MAGE resequences, MAGA Homo sapiens cDNA
7273	19957	33034	0.57	0.0E+00	AF001543.1	EST_HUMAN	AF001543 Human cDNA (Chandrasekharappa,S.C.) Homo sapiens cDNA clone kappa_200
7273	19957	33035	0.57	0.0E+00	AF001543.1	EST_HUMAN	AF001543 Human cDNA (Chandrasekharappa,S.C.) Homo sapiens cDNA clone kappa_200
7292	19975		0.56	0.0E+00	M80354.1	NT	Human BTf3 protein homologue gene, complete cds
7293	19976	33053	0.98	0.0E+00	BE408283.1	EST_HUMAN	601302679F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3637434 5'
7305	19988	33064	0.6	0.0E+00	AW402542.1	EST_HUMAN	UIHF-BKO-aas-g-07-0-J1.r1 NIH_MGC_36 Homo sapiens cDNA clone IMAGE:3054924 5'
7322	20005		1.43	0.0E+00	R87430.1	EST_HUMAN	ym88h10.r1 Soares adult brain N2b4HB55Y Homo sapiens cDNA clone IMAGE:166051 5'
7323	20006	33083	1.88	0.0E+00	AW239326.1	EST_HUMAN	x639a05.y1 NCI_CGAP_Lu31 Homo sapiens cDNA clone IMAGE:3054924 5'
7342	20023		1.31	0.0E+00	AU117553.1	EST_HUMAN	HNF3/FH TRANSCRIPTION FACTOR GENESIS
7344	20025	33101	3.67	0.0E+00	11427135	NT	Homo sapiens glucagon-like peptide 2 receptor (GLP2R), mRNA
7366	20046	33125	0.58	0.0E+00	BF228235.1	EST_HUMAN	MRO-AN0083-270800-004-07 AN0083 Homo sapiens cDNA
7372	20052	33133	0.87	0.0E+00	L32832.1	NT	Homo sapiens zinc finger homeodomain protein (ATBF1-A) mRNA, complete cds
7397	20075	33154	1.18	0.0E+00	BF306996.1	EST_HUMAN	601869823F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:4123948 5'
7397	20075	33155	1.18	0.0E+00	BF306996.1	EST_HUMAN	601869823F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:4123948 5'
7406	20083	33166	0.92	0.0E+00	AU118767.1	EST_HUMAN	AU118767 HEMBA1 Homo sapiens cDNA clone HEMBA1004314 5'
7460	20133	33223	4.16	0.0E+00	AI752561.1	EST_HUMAN	cn17405.x1 Normal Human Trabecular Bone Cells Homo sapiens cDNA clone NHTBC_cn17405 random

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Table 4
Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
7460	20133	33224	4.16	0.0E+00	A1752561.1	EST_HUMAN	cn17d05.x1 Normal Human Trabecular Bone Cells Homo sapiens cDNA clone NHTBC, cn17d05 random
7535	20205	33301	1.83	0.0E+00	AF084205.1	NT	Homo sapiens dynactin 1 (DCTN1) gene, alternatively spliced products, exons 7 through 32 and complete cds
7535	20205	33302	1.83	0.0E+00	AF084205.1	NT	Homo sapiens dynactin 1 (DCTN1) gene, alternatively spliced products, exons 7 through 32 and complete cds
7543	20213	33313	1.14	0.0E+00	U74315.1	EST_HUMAN	Homo sapiens dynactin 1 (DCTN1) gene, alternatively spliced products, exons 7 through 32 and complete cds
7557	20227	33330	1.1	0.0E+00	11417942	NT	HSU74315 Human chromosome 14 Homo sapiens cDNA clone 1-4
7570	20239	33343	2.28	0.0E+00	AW672785.1	EST_HUMAN	Homo sapiens sema domain, seven thrombospondin repeats (type 1 and type 1-like), transmembrane domain (TM) and short cytoplasmic domain, (semaphorin) 5A (SEMA5A), mRNA
7570	20239	33344	2.28	0.0E+00	AW672785.1	EST_HUMAN	ba01e06.y1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:2823106 5' similar to SW:P101_PIG O02696 PHOSPHATIDYLINOSITOL 3-KINASE REGULATORY SUBUNIT ;
7586	20254	33360	1.97	0.0E+00	A1825504.1	EST_HUMAN	ba01e06.y1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:2823106 5' similar to SW:P101_PIG O02696 PHOSPHATIDYLINOSITOL 3-KINASE REGULATORY SUBUNIT ;
7586	20254	33361	1.97	0.0E+00	A1825504.1	EST_HUMAN	wb17g05.x1 NCI_CGAP_GC8 Homo sapiens cDNA clone IMAGE:2305976 3' similar to TR:O75363 O75363 AIBC1 ;
7594	20282	33370	1.51	0.0E+00	6912735	EST_HUMAN	wb17g05.x1 NCI_CGAP_GC8 Homo sapiens cDNA clone IMAGE:2305976 3' similar to TR:O75363 O75363 AIBC1 ;
7599	20265	33373	1.09	0.0E+00	N76126.1	EST_HUMAN	Homo sapiens transient receptor potential channel 5 (TRPC5), mRNA
7604	20270	33377	5.87	0.0E+00	BE217905.1	EST_HUMAN	zsa36a05.s1 Soares_fetal_lung_NbHL19W Homo sapiens cDNA clone IMAGE:289456 3'
7613	20279	33387	5.41	0.0E+00	AU129622.1	EST_HUMAN	601885465F1 NIH_MGC_57 Homo sapiens cDNA clone IMAGE:4103729 5'
7633	25117	33406	0.97	0.0E+00	AW069274.1	EST_HUMAN	AU129622 NT2RP2 Homo sapiens cDNA clone NT2RP2005913 5'
7636	20301	33409	6.26	0.0E+00	4501848	NT	cr42e09.x1 Jia bone marrow stroma Homo sapiens cDNA clone HBMSC cr42e09 3'
7643	20308	33416	1.13	0.0E+00	AV758487.1	EST_HUMAN	cr42e09.x1 Jia bone marrow stroma Homo sapiens cDNA clone HBMSC cr42e09 3'
7645	20309	33417	6.31	0.0E+00	BE739870.1	EST_HUMAN	Homo sapiens ATP-binding cassette, sub-family A (ABC1), member 3 (ABCA3), mRNA
7645	20309	33418	6.31	0.0E+00	BE739870.1	EST_HUMAN	AV758487 BM Homo sapiens cDNA clone BMFBGG05 5'
7646	20310	33419	1.18	0.0E+00	6912461	NT	601593156F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3947365 5'
7646	20310	33420	1.18	0.0E+00	6912461	NT	601593156F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3947365 5'
7647	20311	33421	0.71	0.0E+00	AU120424.1	EST_HUMAN	Homo sapiens atrophin-1 interacting protein 1; activin receptor interacting protein 1 (KIAA0705), mRNA
7647	20311	33422	0.71	0.0E+00	AU120424.1	EST_HUMAN	Homo sapiens atrophin-1 interacting protein 1; activin receptor interacting protein 1 (KIAA0705), mRNA
7680	20344	33458	1.81	0.0E+00	BE787810.1	EST_HUMAN	AU120424 HEMBB1 Homo sapiens cDNA clone HEMBB1000665 5'
							AU120424 HEMBB1 Homo sapiens cDNA clone HEMBB1000665 5'
							601481713F1 NIH_MGC_68 Homo sapiens cDNA clone IMAGE:3884258 5'

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
7680	20344	33457	1.81	0.0E+00	BE787610.1	EST_HUMAN	601481713F1 NIH_MGC_88 Homo sapiens cDNA clone IMAGE:3884258 5'
7720	20384	33498	0.63	0.0E+00	W52673.1	EST_HUMAN	zc90f10.r1 Pancreatic Islet Homo sapiens cDNA clone IMAGE:338443 5'
7734	20398	33513	0.96	0.0E+00	AW402332.1	EST_HUMAN	UJ-HF-BK0-aal-b-06-Q-U1.r1 NIH_MGC_36 Homo sapiens cDNA clone IMAGE:3053915 5'
7735	20400	33515	0.76	0.0E+00	AA760892.1	EST_HUMAN	nz13a08.s1 NCL_CGAP_GCB1 Homo sapiens cDNA clone IMAGE:1287638 3' similar to gb:U01828 MICROTUBULE-ASSOCIATED PROTEIN 2 (HUMAN);
7735	20400	33516	0.76	0.0E+00	AA760892.1	EST_HUMAN	nz13a08.s1 NCL_CGAP_GCB1 Homo sapiens cDNA clone IMAGE:1287638 3' similar to gb:U01828 MICROTUBULE-ASSOCIATED PROTEIN 2 (HUMAN);
7752	20448	33572	0.64	0.0E+00	AU133187.1	EST_HUMAN	AU133187 NT2RP4 Homo sapiens cDNA clone NT2RP4001507 5'
7812	20507	33630	0.82	0.0E+00	BE313013.1	EST_HUMAN	601150347F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:3503050 5'
7824	20519	33645	1.13	0.0E+00	AA149791.1	EST_HUMAN	zc01c08.r1 Stratagene colon (#937204) Homo sapiens cDNA clone IMAGE:366410 5'
7837	20532	33659	0.84	0.0E+00	BF026628.1	EST_HUMAN	601672310F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:3955131 5'
7849	20544	33672	0.45	0.0E+00	AA017021.1	EST_HUMAN	zc33h08.r1 Soares retina N2b4HR Homo sapiens cDNA clone IMAGE:360831 5'
7866	20561	33688	2.31	0.0E+00	BE736046.1	EST_HUMAN	601305658F1 NIH_MGC_39 Homo sapiens cDNA clone IMAGE:3639903 5'
7881	20576	33703	10.48	0.0E+00	M34872.1	NT	Human amyloid-beta protein (APP) gene, exon 11
7881	20576	33704	10.46	0.0E+00	M34872.1	NT	Human amyloid-beta protein (APP) gene, exon 11
7909	20604	33734	0.74	0.0E+00	AW674581.1	EST_HUMAN	bb34d02.y1 NIH_MGC_10 Homo sapiens cDNA clone IMAGE:2985123 5' similar to TR:O64652 O64652 F17K2.26 PROTEIN.;
7909	20604	33735	0.74	0.0E+00	AW674581.1	EST_HUMAN	F17K2.26 PROTEIN.;
7916	20611	33741	3.91	0.0E+00	AA397551.1	EST_HUMAN	z81b04.r1 Stratagene schizo brain S11 Homo sapiens cDNA clone IMAGE:728719 5' similar to TR:G300482 G300482 POL=REVERSE TRANSCRIPTASE HOMOLOG (RETROVIRAL ELEMENT);
7918	20613	33742	1.41	0.0E+00	AW387131.1	EST_HUMAN	MRO-ST0031-061059-003-011 ST0031 Homo sapiens cDNA
7921	20616	33743	0.73	0.0E+00	AB020691.1	NT	Homo sapiens mRNA for KIAA0884 protein, partial cds
7922	20617	33744	7.02	0.0E+00	AU142402.1	EST_HUMAN	AU142402 Y79AA1 Homo sapiens cDNA clone Y79AA1000277 5'
7928	20621	33748	1.63	0.0E+00	BE388421.1	EST_HUMAN	601285550F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3607237 5'
7926	20621	33749	1.63	0.0E+00	BE388421.1	EST_HUMAN	601285550F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3607237 5'
7942	20637	33764	1.09	0.0E+00	W95278.1	EST_HUMAN	ze05d01.r1 Soares fetal heart NbhH19W Homo sapiens cDNA clone IMAGE:358081 5'
7942	20637	33765	1.09	0.0E+00	W95278.1	EST_HUMAN	ze05d01.r1 Soares fetal heart NbhH19W Homo sapiens cDNA clone IMAGE:358081 5'
7944	20639	33766	6.89	0.0E+00	BF673096.1	EST_HUMAN	602153008F1 NIH_MGC_81 Homo sapiens cDNA clone IMAGE:4294128 5'
7948	20643	33782	0.87	0.0E+00	BF673096.1	EST_HUMAN	602153008F1 NIH_MGC_81 Homo sapiens cDNA clone IMAGE:4294128 5'
7962	20657	33783	0.95	0.0E+00	BF525534.1	EST_HUMAN	AU134114 OVARC1 Homo sapiens cDNA clone OVARC1007298 5'
7962	20657	33783	0.95	0.0E+00	BF525534.1	EST_HUMAN	602069632F1 NCL_CGAP_Brn64 Homo sapiens cDNA clone IMAGE:4212727 5'
7992	20687	33813	1.56	0.0E+00	AL120124.1	EST_HUMAN	DKFZp761P092 r1 761 (synonym: hamy2) Homo sapiens cDNA clone IMAGE:4212727 5'
7992	20687	33814	1.59	0.0E+00	AL120124.1	EST_HUMAN	DKFZp761P092 r1 761 (synonym: hamy2) Homo sapiens cDNA clone DKFZp761P092 5'

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Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
8035	20730		1.32	0.0E+00	BE877693.1	EST_HUMAN	601485254F1 NIH_MGC_69 Homo sapiens cDNA clone IMAGE:3887773 5'
8057	20751	33882	2.48	0.0E+00	AW500549.1	EST_HUMAN	U1HF-BNO-akj-f01-QJ1.r1 NIH_MGC_50 Homo sapiens cDNA clone IMAGE:3077498 5'
8065	20759	33888	16.05	0.0E+00	AW157233.1	EST_HUMAN	au33608.x1 Schneider fetal brain 00004 Homo sapiens cDNA clone IMAGE:2783799 3' similar to TR:O60463 O60463 TYPE-2 PHOSPHATIDIC ACID PHOSPHOHYDROLASE. [1]; x207d12.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2567639 3' similar to contains element ORF repetitive element;
8082	20776	33906	0.68	0.0E+00	AW072395.1	EST_HUMAN	Homo sapiens centrosomal protein 2 (CEP2), mRNA
8099	20793	33924	1.09	0.0E+00	11421722	NT	
8102	20796	33927	1.07	0.0E+00	W01616.1	EST_HUMAN	z363d05.r1 Soares fetal liver spleen 1NFLS Homo sapiens cDNA clone IMAGE:294633 5'
8104	20798	33929	1.22	0.0E+00	BE745697.1	EST_HUMAN	601578195F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3926998 5'
8104	20798	33930	1.22	0.0E+00	BE745697.1	EST_HUMAN	601578195F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3926998 5'
8115	20809	33943	1.46	0.0E+00	AJ271735.1	NT	Homo sapiens Xq pseudautosomal region; segment 1/2
8154	20848	33980	0.95	0.0E+00	AJ367350.1	EST_HUMAN	q45c12.x1 NCL_CGAP_U2 Homo sapiens cDNA clone IMAGE:1989334 3' similar to TR:Q14673 Q14673 KJAA0164 PROTEIN.;
8165	20859	33991	2.63	0.0E+00	BE674157.1	EST_HUMAN	7d768d04.x1 NCL_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:3278862 3' similar to TR:O95793 O95793 STAFEN PROTEIN.;
8167	20861	33993	1.19	0.0E+00	AJ856671.1	EST_HUMAN	w60b10.x1 NCL_CGAP_Bm25 Homo sapiens cDNA clone IMAGE:2428275 3' similar to SW:COGT_HUMAN P50281 MATRIX METALLOPROTEINASE-14. PRECURSOR ;
8180	20874	34009	1.07	0.0E+00	BE663650.1	EST_HUMAN	601334790F1 NIH_MGC_39 Homo sapiens cDNA clone IMAGE:3688655 5'
8180	20874	34010	1.07	0.0E+00	BE663650.1	EST_HUMAN	601334790F1 NIH_MGC_39 Homo sapiens cDNA clone IMAGE:3688655 5'
8189	20883	34020	1.63	0.0E+00	11427235	NT	Homo sapiens Chediak-Higashi syndrome 1 (CHS1), mRNA
8189	20883	34021	1.63	0.0E+00	11427235	NT	Homo sapiens Chediak-Higashi syndrome 1 (CHS1), mRNA
8191	20885	34023	3.2	0.0E+00	AA403192.1	EST_HUMAN	zv6802.r1 Soares_total_fetus_Nb2HF8_9w Homo sapiens cDNA clone IMAGE:758619 5' similar to TR:G1304132 G1304132 TPRD.;
8191	20885	34024	3.2	0.0E+00	AA403192.1	EST_HUMAN	TR:G1304132 G1304132 TPRD.;
8231	20925		4.53	0.0E+00	AA398511.1	EST_HUMAN	zv73e08.s1 Soares_testis_NHT Homo sapiens cDNA clone IMAGE:727958 3' similar to gb:S85655 PROHIBITIN (HUMAN);
8240	20934	34071	0.55	0.0E+00	BE837593.1	EST_HUMAN	RC2-FN0094-120600-013-h07 FN0094 Homo sapiens cDNA
8241	20935	34072	1.17	0.0E+00	AW364874.1	EST_HUMAN	QV3-DT0045-221299-046-c07 DT0045 Homo sapiens cDNA
8241	20935	34073	1.17	0.0E+00	AW364874.1	EST_HUMAN	QV3-DT0045-221299-046-c07 DT0045 Homo sapiens cDNA
8260	20954	34092	1.88	0.0E+00	BE612596.1	EST_HUMAN	601452412F1 NIH_MGC_68 Homo sapiens cDNA clone IMAGE:3856179 5'
8260	20954	34093	1.88	0.0E+00	BE612596.1	EST_HUMAN	601452412F1 NIH_MGC_68 Homo sapiens cDNA clone IMAGE:3856179 5'
8275	20969	34110	1.52	0.0E+00	AL163209.2	NT	Homo sapiens chromosome 21 segment HS21C009
8275	20969	34111	1.52	0.0E+00	AL163209.2	NT	Homo sapiens chromosome 21 segment HS21C009

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
8286	20980	34120	1.3	0.0E+00	AI884477.1	EST_HUMAN	wm33e11.x1 NCI_CGAP_U14 Homo sapiens cDNA clone IMAGE:2437724 3' similar to TR:O75457 O75457
8293	20987	34126	1.27	0.0E+00	AA502294.1	EST_HUMAN	CYTOSOLIC PHOSPHOLIPASE A2-GAMMA. ;
8298	20992		0.59	0.0E+00	11416798	NT	m25d10.s1 NCI_CGAP_Co3 Homo sapiens cDNA clone IMAGE:882259 3' similar to TR:G1136434
8305	20999	34137	1.02	0.0E+00	AI580780.1	EST_HUMAN	G1136434 KIAA0187 PROTEIN. ;
8308	21002		1.84	0.0E+00	BE890797.1	EST_HUMAN	Homo sapiens protocadherin beta 3 (PCDH3), mRNA
8334	21027	34163	0.72	0.0E+00	AW245765.1	EST_HUMAN	601431238F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3916569 5'
8334	21027	34164	0.72	0.0E+00	AW245765.1	EST_HUMAN	2822701.5prime NIH_MGC_7 Homo sapiens cDNA clone IMAGE:2822701 5'
8335	21028	34165	2.24	0.0E+00	4758695	NT	2822701.5prime NIH_MGC_7 Homo sapiens cDNA clone IMAGE:2822701 5'
8335	21028	34166	2.24	0.0E+00	4758695	NT	Homo sapiens mitogen-activated protein kinase kinase kinase 13 (MAP3K13), mRNA
8339	21032	34169	0.59	0.0E+00	UB8084.1	NT	Homo sapiens mitogen-activated protein kinase kinase kinase 13 (MAP3K13), mRNA
8339	21032	34170	0.59	0.0E+00	UB8084.1	NT	Human zinc finger protein (ZNF165), gene, exons 2 and 3
8404	21097	34233	0.66	0.0E+00	AJ251760.1	NT	Human zinc finger protein (ZNF165), gene, exons 2 and 3
8409	21102	34239	2.63	0.0E+00	X98922.1	NT	Homo sapiens NESP55, GNAS1 antisense (partial) and XLalphas (partial) genes
8409	21102	34240	2.63	0.0E+00	X98922.1	NT	H. sapiens mRNA for gamma-glutamyltransferase
8409	21102	34255	2.63	0.0E+00	X98922.1	NT	H. sapiens mRNA for gamma-glutamyltransferase
8424	21117	34255	0.68	0.0E+00	UB2979.1	NT	H. sapiens mRNA for gamma-glutamyltransferase
8465	21157	34300	0.88	0.0E+00	AF022655.1	NT	Human Immunoglobulin-like transcript-3 mRNA, complete cds
8465	21157	34301	0.88	0.0E+00	AF022655.1	NT	Homo sapiens cep250 centrosome associated protein mRNA, complete cds
8468	21160	34303	2.28	0.0E+00	AU131671.1	EST_HUMAN	Homo sapiens cep250 centrosome associated protein mRNA, complete cds
8483	21175	34320	0.65	0.0E+00	11426572	NT	AU131671 NT2RP3 Homo sapiens cDNA clone NT2RP3003016 5'
8487	21179		1.92	0.0E+00	AW513513.1	EST_HUMAN	Homo sapiens immunoglobulin superfamily, member 2 (IGSF2), mRNA
8489	21181	34323	14.55	0.0E+00	D52850.1	EST_HUMAN	xc46601.x1 NCI_CGAP_U11 Homo sapiens cDNA clone IMAGE:2707032 3' similar to gb:MI14123_cds4
8520	21212	34356	4.04	0.0E+00	BE378495.1	EST_HUMAN	RETROVIRUS-RELATED POLYPROTEIN (HUMAN);
8526	21218	34360	2.58	0.0E+00	AA470545.1	EST_HUMAN	HUM084C028 Clontech human fetal brain polyA+ mRNA (#6535) Homo sapiens cDNA clone GEN 084C02
8528	21220		2.91	0.0E+00	BF133948.1	EST_HUMAN	5'
8535	21227	34369	0.52	0.0E+00	11424387	NT	601236488F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3608709 5'
8540	21232	34374	1.46	0.0E+00	AW139673.1	EST_HUMAN	2322604.1 Scores ovary tumor NBH07 Homo sapiens cDNA clone IMAGE:724062 5'
8540	21232	34375	1.46	0.0E+00	AW139673.1	EST_HUMAN	601900571F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:4129744 5'
							Homo sapiens leukocyte immunoglobulin-like receptor, subfamily B (with TM and ITIM domains), member 3 (LILRB3), mRNA
							UI-H-B11-adr-e-12-Q-U1.s1 NCI_CGAP_Sub3 Homo sapiens cDNA clone IMAGE:2717687 3'
							UI-H-B11-adr-e-12-Q-U1.s1 NCI_CGAP_Sub3 Homo sapiens cDNA clone IMAGE:2717687 3'

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
8545	21237		0.49	0.0E+00	AI040190.1	EST_HUMAN	wa30b10.x1 NCL_CGAP_Kid11 Homo sapiens cDNA clone IMAGE:2299579 3' similar to TR:O15044
8564	21256	34393	0.76	0.0E+00	BF377897.1	EST_HUMAN	O15044 KIAA0335.1
8574	21266	34408	0.59	0.0E+00	AL163301.2	NT	CM1-TN0141-250900-439-b08 TN0141 Homo sapiens cDNA
8580	21272	34410	5.89	0.0E+00	BE260272.1	EST_HUMAN	Homo sapiens chromosome 21 segment HS21C101
8585	21277	34414	2.51	0.0E+00	BF700165.1	EST_HUMAN	601150051F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:3502886 5'
8585	21277	34415	2.51	0.0E+00	BF700165.1	EST_HUMAN	602127684F1 NIH_MGC_56 Homo sapiens cDNA clone IMAGE:4284542 5'
8585	21277	34416	2.51	0.0E+00	BF700165.1	EST_HUMAN	602127684F1 NIH_MGC_56 Homo sapiens cDNA clone IMAGE:4284542 5'
8600	21292	34434	0.53	0.0E+00	AI458722.1	EST_HUMAN	602127684F1 NIH_MGC_56 Homo sapiens cDNA clone IMAGE:4284542 5'
8628	21318	34460	0.86	0.0E+00	AL449770.1	EST_HUMAN	ik13h11.x1 NCL_CGAP_Lu24 Homo sapiens cDNA clone IMAGE:2150949 3'
8631	21323	34464	7.75	0.0E+00	AA862527.1	EST_HUMAN	AL449770 Homo sapiens fetal brain (Slavides GS) Homo sapiens cDNA
8637	21329	34472	3.09	0.0E+00	10947037	NT	ribosomal protein L7A (HUMAN)
8637	21329	34473	3.09	0.0E+00	10947037	NT	Homo sapiens ankyrin 1, erythrocytic (ANK1), transcript variant 1, mRNA
8660	21362	34499	1.3	0.0E+00	Y11107.3	NT	Homo sapiens ankyrin 1, erythrocytic (ANK1), transcript variant 1, mRNA
8682	21364	34501	1.62	0.0E+00	BE278917.1	EST_HUMAN	Homo sapiens ITGB4 gene for Integrin beta 4 subunit, exons 3-41
8672	21364		1.91	0.0E+00	AV718377.1	EST_HUMAN	601156330F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3139734 5'
8679	21371	34516	3.33	0.0E+00	AW337277.1	EST_HUMAN	AV718377 FHTB Homo sapiens cDNA clone FHTBAAF1 5'
8685	21377	34521	1.12	0.0E+00	AU124051.1	EST_HUMAN	xw73c07.x1 NCL_CGAP_Pan1 Homo sapiens cDNA clone IMAGE:2833644 3' similar to gb:X63587
8761	21453	34601	1.05	0.0E+00	AU140704.1	EST_HUMAN	INTEGRIN BETA-4 SUBUNIT PRECURSOR (HUMAN)
8771	21463	34610	0.86	0.0E+00	AB007923.1	NT	AU124051 NT2RM2 Homo sapiens cDNA clone NT2RM2001575 5'
8776	21468	34614	0.54	0.0E+00	RI7132.1	EST_HUMAN	AU140704 PLACE4 Homo sapiens cDNA clone PLACE4000089 5'
8776	21468	34615	0.54	0.0E+00	RI7132.1	EST_HUMAN	Homo sapiens mRNA for KIAA0454 protein, partial cds
8780	21472	34617	4.43	0.0E+00	AW592233.1	EST_HUMAN	yg09e09.r1 Soares Infant brain 1NIB Homo sapiens cDNA clone IMAGE:31674 5'
8780	21472	34618	4.43	0.0E+00	AW592233.1	EST_HUMAN	yg09e09.r1 Soares Infant brain 1NIB Homo sapiens cDNA clone IMAGE:31674 5'
8815	21507	34652	0.47	0.0E+00	AU128804.1	EST_HUMAN	hf48a09.x1 Soares NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2935096 3'
8827	21519	34684	1.04	0.0E+00	AV714764.1	EST_HUMAN	hf48a09.x1 Soares NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2935096 3'
8843	21535	34679	2.79	0.0E+00	AL040428.1	EST_HUMAN	AU128804 NT2RP2 Homo sapiens cDNA clone NT2RP2004245 5'
8843	21535	34680	2.79	0.0E+00	AL040428.1	EST_HUMAN	AV714764 DCB Homo sapiens cDNA clone DCBAUA06 5'
8849	21540	34686	1.17	0.0E+00	AF133901.1	NT	AV714764 DCB Homo sapiens cDNA clone DCBAUA06 5'
8851	21542	34689	2.03	0.0E+00	AB040945.1	NT	DKFZp434C1814 s1 434 (synonym: htes3) Homo sapiens cDNA clone DKFZp434C1814 3'
8858	21549	34696	0.65	0.0E+00	BF075505.1	EST_HUMAN	DKFZp434C1814 s1 434 (synonym: htes3) Homo sapiens cDNA clone DKFZp434C1814 3'
							Homo sapiens killer inhibitory receptor 2-2-1 (KIR221) and killer inhibitory receptor 2-2-2 (KIR222) genes, partial cds
							Homo sapiens mRNA for KIAA1512 protein, partial cds
							602138488F1 NIH_MGC_83 Homo sapiens cDNA clone IMAGE:4274708 5'

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
8880	21551		0.8	0.0E+00	BF058289.1	EST_HUMAN	7k28b03.x1 NCI_CGAP_Ov18 Homo sapiens cDNA clone IMAGE:3476892 3' similar to TR:O38448 O38448 S GAG. ;
8889	21580	34720	3.97	0.0E+00	11422857	NT	Homo sapiens tumor protein p73 (TP73), mRNA
8898	21589	34729	1.19	0.0E+00	K01241.1	NT	Human lg rearranged H-chain epsilon-3 pseudogene, constant region
8905	21598	34737	4.27	0.0E+00	AB020630.1	NT	Homo sapiens mRNA for KIAA0823 protein, partial cds
8905	21598	34738	4.27	0.0E+00	AB020630.1	NT	Homo sapiens mRNA for KIAA0823 protein, partial cds
8910	21601	34744	1.79	0.0E+00	AV660739.1	EST_HUMAN	AV660739 GLC Homo sapiens cDNA clone GLOC/G12 3'
8918	21607	34750	2.88	0.0E+00	7706638	NT	Homo sapiens polycystin-1 (PKDL), mRNA
8921	21612	34755	0.5	0.0E+00	BE783326.1	EST_HUMAN	601588304F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3842553 5'
8922	21613	34758	0.73	0.0E+00	AB033077.1	NT	Homo sapiens mRNA for KIAA1261 protein, partial cds
8922	21613	34757	0.73	0.0E+00	AB033077.1	NT	Homo sapiens mRNA for KIAA1261 protein, partial cds
8934	21625		0.91	0.0E+00	H73937.1	EST_HUMAN	yu03h08.11 Soares fetal liver spleen 1N1LS Homo sapiens cDNA clone IMAGE:232787 5'
8944	21635	34779	4.57	0.0E+00	BE315402.1	EST_HUMAN	601141119F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3140740 5'
8944	21635	34780	4.57	0.0E+00	BE315402.1	EST_HUMAN	601141119F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3140740 5'
8954	21645	34795	0.46	0.0E+00	BE612721.1	EST_HUMAN	601452682F1 NIH_MGC_68 Homo sapiens cDNA clone IMAGE:3856100 5'
8954	21645	34796	0.46	0.0E+00	BE612721.1	EST_HUMAN	601452682F1 NIH_MGC_68 Homo sapiens cDNA clone IMAGE:3856100 5'
8957	21648		0.45	0.0E+00	M89986.1	NT	Human polymorphic loci in Xq28
8959	21650	34800	3.68	0.0E+00	X14766.1	NT	Human mRNA for GABA-A receptor, alpha 1 subunit
8980	21670	34820	2.03	0.0E+00	A061395.1	EST_HUMAN	ant29e04.x1 Gessler Wilms tumor Homo sapiens cDNA clone IMAGE:1700094 3'
8985	21675	34824	1.95	0.0E+00	A064607.1	EST_HUMAN	w034812.x1 NCI_CGAP_G08 Homo sapiens cDNA clone IMAGE:2473150 3' similar to SW:MGB3_HUMAN
8989	21678	34828	4.65	0.0E+00	9256895	NT	O15480 MELANOMA-ASSOCIATED ANTIGEN B3 ;
9000	21690	34840	1.42	0.0E+00	AW958311.1	EST_HUMAN	Homo sapiens protocadherin alpha 8 (PCDH8), mRNA
9011	21701	34851	2.46	0.0E+00	9635487	NT	Human endogenous retrovirus, complete genome
9026	21716	34869	1.53	0.0E+00	AU142662.1	EST_HUMAN	AU142662 Y79AA1 Homo sapiens cDNA clone Y79AA1000678 5'
9042	21732	34887	1.76	0.0E+00	11438995	NT	Homo sapiens MAP-kinase activating death domain (MADD), mRNA
9043	21733		1.78	0.0E+00	BE410768.1	EST_HUMAN	601301676F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3838163 5'
9058	21745	34904	1.83	0.0E+00	BF02024.1	EST_HUMAN	7g97h12.x1 NCI_CGAP_Cot16 Homo sapiens cDNA clone IMAGE:3314471 3' similar to TR:Q9UJ62
9070	21759	34920	1.1	0.0E+00	AB011150.1	NT	Q8UJ62 HYPOTHETICAL 42.5 KD PROTEIN ;
9071	21760	34921	7.72	0.0E+00	BE794823.1	EST_HUMAN	Homo sapiens mRNA for KIAA0578 protein, partial cds
9075	21764	34926	0.99	0.0E+00	BE810292.1	EST_HUMAN	601588294F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3943463 5'
9075	21764	34927	0.99	0.0E+00	BE810292.1	EST_HUMAN	RC3-PT0161-280600-011-c05 PT0161 Homo sapiens cDNA
9078	21767	34930	2.93	0.0E+00	AU136226.1	EST_HUMAN	RC3-PT0161-280600-011-c05 PT0161 Homo sapiens cDNA
							AU136229 PLACE1 Homo sapiens cDNA clone PLACE1003804 5'

Table 4

Single Exon Probes Expressed In Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
9083	21772	34935	1.27	0.0E+00	BE883843.1	EST_HUMAN	601610247F1 NIH_MGC_71 Homo sapiens cDNA clone IMAGE:3911986 5'
9083	21772	34936	1.27	0.0E+00	BE883843.1	EST_HUMAN	601610247F1 NIH_MGC_71 Homo sapiens cDNA clone IMAGE:3911986 5'
9102	21790	34953	0.92	0.0E+00	AB011168.1	NT	Homo sapiens mRNA for KIAA0584 protein, partial cds
9108	21794	34957	1.4	0.0E+00	AA344801.1	EST_HUMAN	EST50505 Gall bladder 1 Homo sapiens cDNA 5' end
9108	21794	34958	1.4	0.0E+00	AA344801.1	EST_HUMAN	EST50505 Gall bladder 1 Homo sapiens cDNA 5' end
9164	21834	34998	1.13	0.0E+00	AW673469.1	EST_HUMAN	ba54408.v3 NIH_MGC_10 Homo sapiens cDNA clone IMAGE:2900367 5' similar to TR:O60275 O60275
9164	21834	34999	1.13	0.0E+00	AW673469.1	EST_HUMAN	ba54408.v3 NIH_MGC_10 Homo sapiens cDNA clone IMAGE:2900367 5' similar to TR:O60275 O60275
9198	21867	35031	1.62	0.0E+00	BE207063.1	EST_HUMAN	ba09005.y1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:2823873 5' similar to gb:L35049 Mus musculus
9198	21867	35032	1.62	0.0E+00	BE207063.1	EST_HUMAN	ba09005.y1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:2823873 5' similar to gb:L35049 Mus musculus
9209	22088	35280	1.61	0.0E+00	BF348013.1	EST_HUMAN	Bcl-xL mRNA, complete cds (MOUSE);
9244	21923	35093	2.77	0.0E+00	BE712515.1	EST_HUMAN	602023150F1 NCL_CGAP_Brn67 Homo sapiens cDNA clone IMAGE:4168300 5'
9277	22031	35201	0.88	0.0E+00	BF034377.1	EST_HUMAN	QV2-HT0698-250700-282-b08 HT0698 Homo sapiens cDNA
9277	22031	35202	0.88	0.0E+00	BF034377.1	EST_HUMAN	601455116F1 NIH_MGC_66 Homo sapiens cDNA clone IMAGE:3859035 5'
9283	22037	35209	0.5	0.0E+00	AI906351.1	EST_HUMAN	601455116F1 NIH_MGC_66 Homo sapiens cDNA clone IMAGE:3859035 5'
9286	22040	35211	0.81	0.0E+00	5803069	NT	RC-BT108-040399-032 BT108 Homo sapiens cDNA
9286	22040	35212	0.81	0.0E+00	5803069	NT	Homo sapiens leukocyte immunoglobulin-like receptor, subfamily B (with TM and ITIM domains), member 5 (LILRB5), mRNA
9296	21963	35137	1.5	0.0E+00	AL042278.1	EST_HUMAN	Homo sapiens leukocyte immunoglobulin-like receptor, subfamily B (with TM and ITIM domains), member 5 (LILRB5), mRNA
9331	21998	35171	1.26	0.0E+00	AI089043.1	EST_HUMAN	DKFZp434L0120_r1 434 (synonym: htes3) Homo sapiens cDNA clone DKFZp434L0120 5'
9338	20409	33524	0.72	0.0E+00	BF30982.1	EST_HUMAN	TR:Q14677 Q14677 KIAA0171 PROTEIN. ;
9340	20411	33527	2.51	0.0E+00	11560151	NT	601892245F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:4138086 5'
9340	20411	33528	2.51	0.0E+00	11560151	NT	Homo sapiens hypothetical C2H2 zinc finger protein FLJ22504 (FLJ22504), mRNA
9342	20413	33531	9.88	0.0E+00	AI290909.1	EST_HUMAN	Homo sapiens hypothetical C2H2 zinc finger protein FLJ22504 (FLJ22504), mRNA
9342	20413	33532	9.88	0.0E+00	AI290909.1	EST_HUMAN	qm09a06.x1 NCL_CGAP_Lu5 Homo sapiens cDNA clone IMAGE:1881298 3' similar to SW:RL2B_HUMAN
9343	20414	33533	1.96	0.0E+00	AW953836.1	EST_HUMAN	qm09a06.x1 NCL_CGAP_Lu5 Homo sapiens cDNA clone IMAGE:1881298 3' similar to SW:RL2B_HUMAN
9370	21945	35117	3.07	0.0E+00	AF153466.1	NT	P29316 60S RIBOSOMAL PROTEIN L23A. ;
							EST368026 MAGC resequences, MAGC Homo sapiens cDNA
							Homo sapiens polycystic kidney disease 2-like protein (PKD2L) gene, exon 8

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
9373	21948	35121	0.66	0.0E+00	BE885128.1	EST_HUMAN	601510882F1 NIH_MGC_71 Homo sapiens cDNA clone IMAGE:3912165 5'
9373	21948	35122	0.66	0.0E+00	BE885128.1	EST_HUMAN	601510882F1 NIH_MGC_71 Homo sapiens cDNA clone IMAGE:3912165 5'
9382	22044		7.32	0.0E+00	BE25828.1	EST_HUMAN	601109942F1 NIH_MGC_16 Homo sapiens cDNA clone IMAGE:3350722 5'
9385	22047	35219	1.09	0.0E+00	BE781382.1	EST_HUMAN	601468828F1 NIH_MGC_67 Homo sapiens cDNA clone IMAGE:3870007 5'
9385	22047	35220	1.09	0.0E+00	BE781382.1	EST_HUMAN	601468828F1 NIH_MGC_67 Homo sapiens cDNA clone IMAGE:3870007 5'
9387	22049	35221	12.62	0.0E+00	AW163779.1	EST_HUMAN	601468828F1 NIH_MGC_67 Homo sapiens cDNA clone IMAGE:3870007 5'
9409	22071	35243	2.98	0.0E+00	BE263191.1	EST_HUMAN	60S RIBOSOMAL PROTEIN L7A (HUMAN);
9427	22105	35278	4.26	0.0E+00	C06158.1	EST_HUMAN	601145054F2 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:3160477 5'
9427	22105	35279	4.29	0.0E+00	C06158.1	EST_HUMAN	C06158 Human pancreatic islet Homo sapiens cDNA clone hbc5605
9429	22107	35282	2.63	0.0E+00	BE746215.1	EST_HUMAN	C06158 Human pancreatic islet Homo sapiens cDNA clone hbc5605
9439	22117	35292	2.14	0.0E+00	11437282	NT	601578683F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3927548 5'
9439	22117	35293	2.14	0.0E+00	11437282	NT	Homo sapiens solute carrier family 21 (organic anion transporter), member 9 (SLC21A9), mRNA
9439	22117	35294	2.14	0.0E+00	11437282	NT	Homo sapiens solute carrier family 21 (organic anion transporter), member 9 (SLC21A9), mRNA
9459	22009	35179	1.44	0.0E+00	BE900549.1	EST_HUMAN	Homo sapiens solute carrier family 21 (organic anion transporter), member 9 (SLC21A9), mRNA
9475	22126	35307	1.01	0.0E+00	AV701829.1	EST_HUMAN	601673425F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3956238 5'
9489	22142	35321	2.62	0.0E+00	AF019084.1	NT	AV701829 ADB Homo sapiens cDNA clone ADBBYH01 5'
9489	22142	35322	2.62	0.0E+00	AF019084.1	NT	Homo sapiens keratin 2a (KRT2E) gene, complete cds
9522	22175	35359	0.94	0.0E+00	BE082977.1	EST_HUMAN	Homo sapiens keratin 2a (KRT2E) gene, complete cds
9541	22194	35379	1.74	0.0E+00	AW500293.1	EST_HUMAN	RC2-BT0642-130300-017-g01 BT0642 Homo sapiens cDNA
9541	22194	35380	1.74	0.0E+00	AW500293.1	EST_HUMAN	UI-HF-BN0-akg-b-12-Q-UI.1 NIH_MGC_50 Homo sapiens cDNA clone IMAGE:3076943 5'
9550	22203	35386	1.45	0.0E+00	AF029308.1	NT	UI-HF-BN0-akg-b-12-Q-UI.1 NIH_MGC_50 Homo sapiens cDNA clone IMAGE:3076943 5'
9550	22203	35387		0.0E+00	AF029308.1	NT	Homo sapiens chromosome 9 duplication of the T cell receptor beta locus and tyrosinogen gene families
9552	22205	35388	1.45	0.0E+00	AF029308.1	NT	Homo sapiens chromosome 9 duplication of the T cell receptor beta locus and tyrosinogen gene families
9552	22205	35389	0.69	0.0E+00	BE783272.1	EST_HUMAN	601470824F1 NIH_MGC_67 Homo sapiens cDNA clone IMAGE:3874037 5'
9561	22214	35400	0.69	0.0E+00	BE783272.1	EST_HUMAN	601470824F1 NIH_MGC_67 Homo sapiens cDNA clone IMAGE:3874037 5'
9561	22214	35401	0.54	0.0E+00	W56629.1	EST_HUMAN	601470824F1 NIH_MGC_67 Homo sapiens cDNA clone IMAGE:3874037 5'
9572	22225	35410	0.54	0.0E+00	W56629.1	EST_HUMAN	ztd16e11.1 Soares fetal heart_NbHH19W Homo sapiens cDNA clone IMAGE:340844 5'
9572	22229		1.83	0.0E+00	ABD35356.1	NT	ztd16e11.1 Soares fetal heart_NbHH19W Homo sapiens cDNA clone IMAGE:340844 5'
9578	22231	35415	0.8	0.0E+00	AI124780.1	EST_HUMAN	Homo sapiens mRNA for neuroxin I-alpha protein, complete cds
9578	22231	35415	3.59	0.0E+00	AW500526.1	EST_HUMAN	am56a11.x1 Johnston frontal cortex Homo sapiens cDNA clone IMAGE:1539548 3'
9624	22277	35466	1.53	0.0E+00	AF009668.1	NT	UI-HF-BN0-akg-c-07-Q-UI.1 NIH_MGC_50 Homo sapiens cDNA clone IMAGE:3077364 5'
							Multiple sclerosis associated retrovirus polyprotein (pol) mRNA, partial cds

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
9652	22304	35499	2.23	0.0E+00	S78466.1	NT	AlGF=androgen-induced growth factor AIGF [human, placenta, Genomic/mRNA, 498 nt, segment 5 of 5]
9652	22304	35500	2.23	0.0E+00	S78466.1	NT	
9655	22307	35505	2.93	0.0E+00	BE563320.1	EST_HUMAN	AlGF=androgen-induced growth factor AIGF [human, placenta, Genomic/mRNA, 498 nt, segment 5 of 5]
9674	22326	35521	1.64	0.0E+00	AW363135.1	EST_HUMAN	601334603F1 NIH_MGC_39 Homo sapiens cDNA clone IMAGE:368660 5'
9692	22343	35537	0.46	0.0E+00	11436432	NT	GM2-CT0311-301189-043-h11 CT0311 Homo sapiens cDNA
9693	22344	35538					Homo sapiens multimerin (MVRN), mRNA
9702	22353	35548	0.51	0.0E+00	11424387	NT	Homo sapiens leukocyte immunoglobulin-like receptor, subfamily B (with TM and ITIM domains), member 3 (LILRB3), mRNA
9719	22370	35568	0.54	0.0E+00	BE206710.1	EST_HUMAN	b226c01.x1 NIH_MGC_5 Homo sapiens cDNA clone IMAGE:2864000 3'
9719	22370	35569	2.57	0.0E+00	AU132349.1	EST_HUMAN	AU132349 NT2RP3 Homo sapiens cDNA clone NT2RP3004260 5'
9728	22379	35581	2.57	0.0E+00	AU132349.1	EST_HUMAN	AU132349 NT2RP3 Homo sapiens cDNA clone NT2RP3004260 5'
9733	22384	35586	0.77	0.0E+00	AW500636.1	EST_HUMAN	UI-HF-BP0p-af-f05-0-UI.1 NIH_MGC_51 Homo sapiens cDNA clone IMAGE:3072897 5'
9733	22384	35587	9.08	0.0E+00	BE740490.1	EST_HUMAN	601595558F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3949383 5'
9734	22385	35588	9.08	0.0E+00	BE740490.1	EST_HUMAN	601595558F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3949383 5'
9747	22398	35589	0.48	0.0E+00	AB033057.1	NT	Homo sapiens mRNA for KIAA1231 protein, partial cds
9747	22398	35590	0.48	0.0E+00	AB033057.1	NT	Homo sapiens KIAA0345 gene product (KIAA0345), mRNA
9765	22416	35603	1.73	0.0E+00	7682067	NT	
9770	22421	35629	1.59	0.0E+00	AL042278.1	EST_HUMAN	DKFZp434L0120_1 434 (synonym: hies3) Homo sapiens cDNA clone DKFZp434L0120 5'
9780	22431	35636	1.53	0.0E+00	AL041084.2	EST_HUMAN	DKFZp434B2416_1 434 (synonym: hies3) Homo sapiens cDNA clone DKFZp434B2416 5'
9781	22432	35637	2.54	0.0E+00	AU132349.1	EST_HUMAN	AU132349 NT2RP3 Homo sapiens cDNA clone NT2RP3004260 5'
9808	22459	35664	2.37	0.0E+00	AF152308.1	NT	Homo sapiens protocadherin alpha 12 (PCDH-alpha12) mRNA, complete cds
9808	22459	35665	2.63	0.0E+00	AF009220.1	NT	Homo sapiens leukocyte immunoglobulin-like receptor-1 mRNA, complete cds
9824	22475	35678	2.63	0.0E+00	AF009220.1	NT	Homo sapiens leukocyte immunoglobulin-like receptor-1 mRNA, complete cds
9854	22504	35704	1.81	0.0E+00	BF092898.1	EST_HUMAN	MR4-TN0114-110900-101-e04 TN0114 Homo sapiens cDNA
9864	22514	35710	2.41	0.0E+00	BE280783.1	EST_HUMAN	601155227F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3138798 5'
9864	22514	35711	0.86	0.0E+00	BE388700.1	EST_HUMAN	601286351F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3613045 5'
9873	22523	35717	0.86	0.0E+00	BE388700.1	EST_HUMAN	601286351F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3613045 5'
9874	22524	35718					xt72b01.x1 NCI_CGAP_GML1 Homo sapiens cDNA clone IMAGE:2699977 3' similar to gb:X02152_cds1 L-
9904	22553	35748	3.03	0.0E+00	AW236269.1	EST_HUMAN	LACTATE DEHYDROGENASE M CHAIN (HUMAN);
9915	22564	35759	1.06	0.0E+00	AA341306.1	EST_HUMAN	EST46740 Fetal kidney II Homo sapiens cDNA 5' end
9915	22564	35760	0.97	0.0E+00	AW064113.1	EST_HUMAN	EST376186 MAGI2 resequences, MAGI2 Homo sapiens cDNA
9915	22564	35760	7.01	0.0E+00	AU143673.1	EST_HUMAN	AU143673 Y79AA1 Homo sapiens cDNA clone Y79AA1002307 5'
9915	22564	35760	7.01	0.0E+00	AU143673.1	EST_HUMAN	AU143673 Y79AA1 Homo sapiens cDNA clone Y79AA1002307 5'

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO.	Exon SEQ ID NO.	ORF SEQ ID NO.	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
9918	22567	35763	2.98	0.0E+00	AF072408.1	NT	Homo sapiens killer cell inhibitory receptor KIRCI gene, exons 2, 3, and 4
9921	22569	35765	2.75	0.0E+00	11421001	NT	Homo sapiens HEF like Protein (HEFL), mRNA
9921	22569	35766	2.75	0.0E+00	11421001	NT	Homo sapiens HEF like Protein (HEFL), mRNA
9956	22604	35809	3	0.0E+00	AU136637.1	EST_HUMAN	AU136637 PLACE1 Homo sapiens cDNA clone PLACE1004737 5'
9956	22604	35810	3	0.0E+00	AU136637.1	EST_HUMAN	AU136637 PLACE1 Homo sapiens cDNA clone PLACE1004737 5'
9972	22620	35824	2.08	0.0E+00	AJ295944.1	NT	Homo sapiens partial RANBP7 gene for RANBP7/importin7 and partial ZNF143 gene
9972	22620	35825	2.08	0.0E+00	AJ295944.1	NT	Homo sapiens partial RANBP7 gene for RANBP7/importin7 and partial ZNF143 gene
9977	22626	35832	1.04	0.0E+00	AV695712.1	EST_HUMAN	AV695712 GK Homo sapiens cDNA clone GKCDXA07 5'
9977	22626	35833	1.04	0.0E+00	AV695712.1	EST_HUMAN	AV695712 GK Homo sapiens cDNA clone GKCDXA07 5'
9983	22631	35840	0.74	0.0E+00	AF072408.1	NT	Homo sapiens killer cell inhibitory receptor KIRCI gene, exons 2, 3, and 4
9985	22633	35843	3.11	0.0E+00	AA196387.1	EST_HUMAN	zp57h1.1, r1 Stretagene muscle 937209 Homo sapiens cDNA clone IMAGE:628197 5'
10011	22659	35873	1	0.0E+00	AA131248.1	EST_HUMAN	z31f01.1, r1 Soares_pregnant_uterus_NbHPU Homo sapiens cDNA clone IMAGE:503545 5'
10011	22659	35874	1	0.0E+00	AA131248.1	EST_HUMAN	z31f01.1, r1 Soares_pregnant_uterus_NbHPU Homo sapiens cDNA clone IMAGE:503545 5'
10058	22704	35822	1.44	0.0E+00	AF176308.1	NT	Homo sapiens KIF4 (KIF4) mRNA, complete cds
10101	22749	35884	0.92	0.0E+00	BE880668.1	EST_HUMAN	601491565F1 NIH_MGC_69 Homo sapiens cDNA clone IMAGE:3893657 5'
10112	22760	35972	6.22	0.0E+00	BE730772.1	EST_HUMAN	601570712F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3845403 5'
10112	22760	35973	6.22	0.0E+00	BE730772.1	EST_HUMAN	601570712F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3845403 5'
10117	22765	35977	0.97	0.0E+00	AU127403.1	EST_HUMAN	AU127403 NT2RP2 Homo sapiens cDNA clone NT2RP2001212 5'
10127	22775	35988	0.87	0.0E+00	BE958511.1	EST_HUMAN	601645134F1 NIH_MGC_56 Homo sapiens cDNA clone IMAGE:3930177 5'
10127	22775	35989	0.87	0.0E+00	BE958511.1	EST_HUMAN	601645134F1 NIH_MGC_56 Homo sapiens cDNA clone IMAGE:3930177 5'
10144	22792	36007	0.68	0.0E+00	BE897487.1	EST_HUMAN	601432317F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3917453 5'
10154	22802	36020	0.67	0.0E+00	AA311624.1	EST_HUMAN	EST182353 Jurkat T-cells VI Homo sapiens cDNA 5' end
10155	22803	36021	1.01	0.0E+00	4758827	NT	Homo sapiens neurexin III (NRXN3) mRNA
10166	22814	36032	0.67	0.0E+00	BE891113.1	EST_HUMAN	601432228F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3917598 5'
10169	22817	36035	1.13	0.0E+00	11560151	NT	Homo sapiens hypothetical C2H2 zinc finger protein FLJ22504 (FLJ22504), mRNA
10179	22827	36041	1.72	0.0E+00	AB029290.1	NT	Homo sapiens mRNA for actin binding protein ABP620, complete cds
10180	22828	36042	0.46	0.0E+00	BE304522.1	EST_HUMAN	601105459F1 NIH_MGC_15 Homo sapiens cDNA clone IMAGE:2887918 5'
10180	22828	36043	0.46	0.0E+00	BE304522.1	EST_HUMAN	601105459F1 NIH_MGC_15 Homo sapiens cDNA clone IMAGE:2887918 5'
10187	22835	36048	6.02	0.0E+00	AB006590.1	NT	Homo sapiens mRNA for estrogen receptor beta, complete cds
10187	22835	36049	6.02	0.0E+00	AB006590.1	NT	Homo sapiens mRNA for estrogen receptor beta, complete cds
10193	22841	36056	1.06	0.0E+00	AA704457.1	EST_HUMAN	z19b06.s1 Soares_fetal_liver_INFLS_S1 Homo sapiens cDNA clone IMAGE:450707 3' similar to gb:M14123 cds1 RETROVIRUS-RELATED GAG POLYPROTEIN (HUMAN);
10195	22843	36057	0.74	0.0E+00	M22921.1	NT	Human beta 1,4-galactosyl-transferase mRNA, complete cds
10197	22846	36060	5.45	0.0E+00	BF340331.1	EST_HUMAN	602037045F1 NCI_OGAP_Brm64 Homo sapiens cDNA clone IMAGE:4184939 5'

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
10197	22845	36061	5.45	0.0E+00	BF340331.1	EST_HUMAN	802037046F1 NCI_CGAP_Brr64 Homo sapiens cDNA clone IMAGE:4184939 5'
10222	22870	36082	0.93	0.0E+00	BE897149.1	EST_HUMAN	6014397113F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3924578 5'
10222	22870	36083	0.93	0.0E+00	BE897149.1	EST_HUMAN	6014397113F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3924578 5'
10252	22800	36110	0.55	0.0E+00	AV716271.1	EST_HUMAN	AV716271 DCB Homo sapiens cDNA clone DCBBDC09 5'
10252	22800	36111	0.55	0.0E+00	AV716271.1	EST_HUMAN	AV716271 DCB Homo sapiens cDNA clone DCBBDC09 5'
10282	22930	36143	2.36	0.0E+00	AI631818.1	EST_HUMAN	wa36a03.x1 NCI_CGAP_Kid11 Homo sapiens cDNA clone IMAGE:2300188 3' similar to TR:Q61204
10282	22930	36144	2.36	0.0E+00	AI631818.1	EST_HUMAN	Q61204 NOTCH2-LIKE;
10288	22936	36149	0.49	0.0E+00	11545730	NT	Q61204 NOTCH2-LIKE;
10298	22945	36159	1.52	0.0E+00	T03078.1	EST_HUMAN	Homo sapiens Gigaxonin (GAN), mRNA
10323	22970	36190	0.64	0.0E+00	AU122429.1	EST_HUMAN	FB23A4 Fetal brain, Stratiogene Homo sapiens cDNA clone FB23A4 3' end
10329	22976	36196	0.46	0.0E+00	6005621	NT	AU122429 MAMMA1 Homo sapiens cDNA clone MAMMA1002368 5'
10348	22895	36214	2.5	0.0E+00	BF436218.1	EST_HUMAN	Homo sapiens triple functional domain (PTPRF interacting) (TRIO), mRNA
10349	22896		0.97	0.0E+00	AV654765.1	EST_HUMAN	rab45e12.x1 Soares NSF_F8_9W_OT_PA_P_S1 Homo sapiens cDNA clone IMAGE:3265271 3'
10369	23015	36231	2.75	0.0E+00	AW517960.1	EST_HUMAN	AV654765 GLC Homo sapiens cDNA clone GLODZC07 3'
10374	23020	36236	8.82	0.0E+00	BE549213.1	EST_HUMAN	xu74601.x1 NCI_CGAP_Kid8 Homo sapiens cDNA clone IMAGE:2807401 3' similar to gb:M68066 MOESIN (HUMAN);
10389	23035	36251	0.75	0.0E+00	11438005	NT	601078764F1 NIH_MGC_12 Homo sapiens cDNA clone IMAGE:3484703 5'
10414	23060	36279	2.79	0.0E+00	BE781742.1	EST_HUMAN	Homo sapiens hypothetical protein DKFZp761P1010 (DKFZp761P1010), mRNA
10435	23081	36307	1.9	0.0E+00	BE082720.1	EST_HUMAN	601467419F1 NIH_MGC_67 Homo sapiens cDNA clone IMAGE:3870700 5'
10442	23088	36316	0.66	0.0E+00	Y08032.1	NT	RC2-BT0642-150200-012-d03 BT0642 Homo sapiens cDNA
10448	23094	36325	0.86	0.0E+00	AI656890.1	EST_HUMAN	RC2-BT0642-150200-012-d03 BT0642 Homo sapiens cDNA
10454	23100	36331	1.33	0.0E+00	BE743215.1	EST_HUMAN	Human endogenous retrovirus-K, LTR U5 and gag gene
10454	23100	36332	1.33	0.0E+00	BE743215.1	EST_HUMAN	tt64e07.x1 NCI_CGAP_GC8 Homo sapiens cDNA clone IMAGE:2244812 3'
10469	23105	36335	2.49	0.0E+00	BE617655.1	EST_HUMAN	601573895F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3835198 5'
10469	23105	36336	2.49	0.0E+00	BE617655.1	EST_HUMAN	601573895F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3835198 5'
10481	23127	36355	0.57	0.0E+00	H98905.1	EST_HUMAN	601441723T1 NIH_MGC_65 Homo sapiens cDNA clone IMAGE:3845956 3'
10508	23154	36380	1.01	0.0E+00	D87675.1	NT	601441723T1 NIH_MGC_65 Homo sapiens cDNA clone IMAGE:3845956 3'
10510	23156	36382	0.45	0.0E+00	AF081364.1	NT	y001a10.1 Soares breast 3N6HBst Homo sapiens cDNA clone IMAGE:186138 5'
10519	23165	36392	1.02	0.0E+00	BE172264.1	EST_HUMAN	Homo sapiens DNA for amyloid precursor protein, complete cds
10519	23165	36393	1.02	0.0E+00	BE172264.1	EST_HUMAN	Synthetic construct CD30 ligand-exon A fusion protein (CD30L-ETA fusion) mRNA, partial cds
10532	23229	36493	2.76	0.0E+00	AV711075.1	EST_HUMAN	MRG-HT0569-270300-008-e12 HT0569 Homo sapiens cDNA
							MRG-HT0569-270300-008-e12 HT0569 Homo sapiens cDNA
							AV711075 Cu Homo sapiens cDNA clone CuAAKG05 5'

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
10532	23229	36464	2.76	0.0E+00	AV711075.1	EST_HUMAN	AV711075 Gu Homo sapiens cDNA clone CuAAKG05 5'
10534	23231		2.13	0.0E+00	AW813783.1	EST_HUMAN	RC3-ST0197-120200-015-a03 ST0197 Homo sapiens cDNA
10542	23238	36472	7.02	0.0E+00	AW963563.1	EST_HUMAN	EST375638 IMAGE resequences, MAGH Homo sapiens cDNA
10555	23251	36487	3.19	0.0E+00	11431124	NT	Homo sapiens ATP-binding cassette, sub-family A (ABC1), member 3 (ABCA3), mRNA
10555	23251	36488	3.19	0.0E+00	11431124	NT	Homo sapiens ATP-binding cassette, sub-family A (ABC1), member 3 (ABCA3), mRNA
10559	23255	36492	2.09	0.0E+00	AW057621.1	EST_HUMAN	wy61f09.x1 Soares_NSF_F8_9W_OT_PA_P_S1 Homo sapiens cDNA clone IMAGE:2653065 3' similar to TR:Q80566 Q80566 VDX;
10567	23262	36498	1.6	0.0E+00	BE243270.1	EST_HUMAN	TCAAP3D0917 Pediatric acute myelogenous leukemia cell (FAB M1) Baylor-HGSC project=TCAA Homo sapiens cDNA clone TCAAP0917
10568	23263	36500	2.85	0.0E+00	AI652239.1	EST_HUMAN	wb28a12.x1 NCL_CGAP_G08 Homo sapiens cDNA clone IMAGE:2306974 3' similar to contains element MSR1 MSR1 repetitive element;
10568	23263	36501	2.85	0.0E+00	AI652239.1	EST_HUMAN	wb28a12.x1 NCL_CGAP_G08 Homo sapiens cDNA clone IMAGE:2306974 3' similar to contains element MSR1 MSR1 repetitive element;
10573	23268	36506	1.64	0.0E+00	BF306642.1	EST_HUMAN	601888704F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:4122849 5'
10580	23275	36512	5.06	0.0E+00	11545911	NT	Homo sapiens NOD2 protein (NOD2), mRNA
10580	23275	36513	5.06	0.0E+00	11545911	NT	Homo sapiens NOD2 protein (NOD2), mRNA
10596	23290	36528	1.98	0.0E+00	AW 404795.1	EST_HUMAN	UI-HF-BL0-acm-d-04-0-UJ.1 NIH_MGC_37 Homo sapiens cDNA clone IMAGE:3059383 5'
10600	23295	36533	3.17	0.0E+00	11424828	NT	Homo sapiens hypothetical protein FLJ20079 (FLJ20079), mRNA
10601	23295	36534	7.47	0.0E+00	4504536	NT	Homo sapiens 5-hydroxytryptamine (serotonin) receptor 1E (HTR1E) mRNA
10601	23295	36535	7.47	0.0E+00	4504536	NT	Homo sapiens 5-hydroxytryptamine (serotonin) receptor 1E (HTR1E) mRNA
10602	23296	36536	3.68	0.0E+00	AI991827.1	EST_HUMAN	wu32b06.x1 Soares_Dickgraefe_colon_NHCD Homo sapiens cDNA clone IMAGE:3906865 5'
10605	23299	36540	4.48	0.0E+00	BE882109.1	EST_HUMAN	601505204F2 NIH_MGC_71 Homo sapiens cDNA clone IMAGE:2521715 3'
10609	23303	36542	8.24	0.0E+00	BE891630.1	EST_HUMAN	601434522F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3918936 5'
10612	23306	36544	1.66	0.0E+00	8923939	NT	Homo sapiens myosin, heavy polypeptide 2, skeletal muscle, adult (MYH2), mRNA
10612	23306	36545	1.66	0.0E+00	8923939	NT	Homo sapiens myosin, heavy polypeptide 2, skeletal muscle, adult (MYH2), mRNA
10619	23312	36551	1.4	0.0E+00	AB014608.1	NT	Homo sapiens mRNA for KIAA0708 protein, partial cds
10619	23312	36552	1.4	0.0E+00	AB014608.1	NT	Homo sapiens mRNA for KIAA0708 protein, partial cds
10628	23321	36559	1.31	0.0E+00	BE903304.1	EST_HUMAN	601674332F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3957343 5'
10631	18484	31403	1.85	0.0E+00	AA106905.1	EST_HUMAN	zp95b11.1 Stratagene muscle 937209 Homo sapiens cDNA clone IMAGE:627693 5' similar to gb.X03740
10652	23343	36581	5.53	0.0E+00	BE793498.1	EST_HUMAN	MYOSIN HEAVY CHAIN, SKELETAL MUSCLE (HUMAN);
10660	23351	36588	1.79	0.0E+00	BE729706.1	EST_HUMAN	601588929F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3943015 5'
10660	23351	36589	1.79	0.0E+00	BE729706.1	EST_HUMAN	601588929F1 NIH_MGC_20 Homo sapiens cDNA clone IMAGE:3832575 5'
10661	23352	36590	33.99	0.0E+00	AV727362.1	EST_HUMAN	AV727362 HTC Homo sapiens cDNA clone HTCAQH06 5'

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
10661	23352	36591	33.99	0.0E+00	AV727362.1	EST_HUMAN	AV727362 HTC Homo sapiens cDNA clone HTCAQH06 5'
10674	23365	36608	9.59	0.0E+00	AW516055.1	EST_HUMAN	xy04g10.x1 NCI CGAP_Lym12 Homo sapiens cDNA clone IMAGE:2852226 3' similar to gb:M60854 40S
10680	23371	36613	3.18	0.0E+00	AU135741.1	EST_HUMAN	RIBOSOMAL PROTEIN S16 (HUMAN); AU135741 PLACE1 Homo sapiens cDNA clone PLACE1002794 5'
10686	23377	36617	3.41	0.0E+00	AW593333.1	EST_HUMAN	hgi3d02.x1 Scores_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2945475 3' similar to contains element MSR1 repetitive element;
10686	23377	36618	3.41	0.0E+00	AW593333.1	EST_HUMAN	hgi3d02.x1 Scores_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2945475 3' similar to contains element MSR1 repetitive element;
10686	23377	36619	3.41	0.0E+00	AW593333.1	EST_HUMAN	hgi3d02.x1 Scores_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2945475 3' similar to contains element MSR1 repetitive element;
10688	23379	36620	1.89	0.0E+00	Z34897.1	NT	H.sapiens mRNA for H1 histamine receptor
10689	23380	36621	2.97	0.0E+00	F13069.1	EST_HUMAN	HSC3IC031 normalized infant brain cDNA Homo sapiens cDNA clone c-3ic03
10700	23391	36629	1.79	0.0E+00	D10083.1	NT	Homo sapiens RGH1 gene, retrovirus-like element
10706	23396	36634	1.33	0.0E+00	4758281	NT	Homo sapiens EphA7 (EPHA7) mRNA
10706	23396	36635	1.33	0.0E+00	4758281	NT	Homo sapiens EphA7 (EPHA7) mRNA
10718	23407	36648	2.13	0.0E+00	AW338094.1	EST_HUMAN	xw66f01.x1 NCI CGAP_Pant1 Homo sapiens cDNA clone IMAGE:2832985 3' similar to gb:X17115 IG MU CHAIN C REGION (HUMAN);
10719	23408	36649	4.62	0.0E+00	AW451230.1	EST_HUMAN	UI-H-BI3-ah-a-01-0-UJ.st NCI CGAP_Sub5 Homo sapiens cDNA clone IMAGE:2736849 3'
10719	23408	36650	4.62	0.0E+00	AW451230.1	EST_HUMAN	UI-H-BI3-ah-a-01-0-UJ.st NCI CGAP_Sub5 Homo sapiens cDNA clone IMAGE:2736849 3'
10721	13021		11.67	0.0E+00	4506632	NT	Homo sapiens ribosomal protein L31 (RPL31) mRNA
10723	23411	36652	2.53	0.0E+00	AB014567.1	NT	Homo sapiens mRNA for KIAA0667 protein, partial cds
10738	23425	36670	1.98	0.0E+00	BE298449.1	EST_HUMAN	601119248F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:3028219 5'
10754	23439	36683	2.04	0.0E+00	AB011117.1	NT	Homo sapiens mRNA for KIAA0545 protein, partial cds
10763	23447		1.71	0.0E+00	AU124106.1	EST_HUMAN	AU124106 NT2RM2 Homo sapiens cDNA clone NT2RM2001675 5'
10771	23454	36697	1.45	0.0E+00	AB029040.1	NT	Homo sapiens mRNA for KIAA1117 protein, partial cds
10771	23454	36698	1.45	0.0E+00	AB029040.1	NT	Homo sapiens mRNA for KIAA1117 protein, partial cds
10776	23459	36702	4.04	0.0E+00	BE792155.1	EST_HUMAN	601582046F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3936539 5'
10777	23460		59.14	0.0E+00	BE792155.1	EST_HUMAN	602141405F1 NIH_MGC_46 Homo sapiens cDNA clone IMAGE:4302432 5'
10778	23461	36703	1.3	0.0E+00	BE266298.1	EST_HUMAN	601186342F1 NIH_MGC_8 Homo sapiens cDNA clone IMAGE:3644259 5'
10781	23464	36706	5.8	0.0E+00	AU118396.1	EST_HUMAN	AU118396 HEMBA1 Homo sapiens cDNA clone HEMBA1003486 5'
10786	23469	36710	6.53	0.0E+00	A1149809.1	EST_HUMAN	qf43c03.x1 Scores_testis NHT Homo sapiens cDNA clone IMAGE:1752772 3'
10786	23469	36711	6.53	0.0E+00	A1149809.1	EST_HUMAN	qf43c03.x1 Scores_testis NHT Homo sapiens cDNA clone IMAGE:1752772 3'
10787	23470	36712	3.04	0.0E+00	AW391937.1	EST_HUMAN	QV4-S10234-121169-032-b06 ST0234 Homo sapiens cDNA

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Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
10798	23481	36721	4.39	0.0E+00	AF223391.1	NT	Homo sapiens calcium channel alpha1E subunit (CACNA1E) gene, exons 7-49, and partial cds, alternatively spliced
10798	23481	36722	4.39	0.0E+00	AF223391.1	NT	Homo sapiens calcium channel alpha1E subunit (CACNA1E) gene, exons 7-49, and partial cds, alternatively spliced
10807	23490	36728	9.57	0.0E+00	11424726	NT	Homo sapiens Insulin receptor (INSR), mRNA
10814	23497	36733	1.42	0.0E+00	AW804516.1	EST_HUMAN	QV0-UM0093-170400-191-d06 UM0093 Homo sapiens cDNA
10814	23497	36734	1.42	0.0E+00	AW804516.1	EST_HUMAN	QV0-UM0093-170400-191-d06 UM0093 Homo sapiens cDNA
10815	23498	36735	1.6	0.0E+00	BF340308.1	EST_HUMAN	602037014F1 NCJ_CGAP_Bm64 Homo sapiens cDNA clone IMAGE:4184978 5'
10817	23500	36738	52.94	0.0E+00	BE261209.1	EST_HUMAN	601148357F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:3163310 5'
10821	23504	36743	2.37	0.0E+00	AB029040.1	NT	Homo sapiens mRNA for KIAA1117 protein, partial cds
10824	23507	36748	1.69	0.0E+00	AB007932.1	NT	Homo sapiens mRNA for KIAA0483 protein, partial cds
10828	23510	36750	3.47	0.0E+00	U50326.1	NT	Human protein kinase C substrate 80K-H (PRKCSH) gene, exon 15-17
10832	23514	36755	1.55	0.0E+00	BE773036.1	EST_HUMAN	RC1-FT0134-170700-012-f07 FT0134 Homo sapiens cDNA
10832	23514	36756	1.55	0.0E+00	BE773036.1	EST_HUMAN	RC1-FT0134-170700-012-f07 FT0134 Homo sapiens cDNA
10838	23520	36762	1.47	0.0E+00	W21826.1	EST_HUMAN	57E10 Human retina cDNA Tsp509l-cleaved sublibrary Homo sapiens cDNA not directional
10854	23534	36779	136.91	0.0E+00	AA740782.1	EST_HUMAN	ob32a07.s1 NCJ_CGAP_Kid5 Homo sapiens cDNA clone IMAGE:1325412 3' similar to contains element
10857	23537	36783	2.05	0.0E+00	AF466922.1	EST_HUMAN	MSR1 repetitive element
10863	23543	36790	2.91	0.0E+00	AF252303.1	NT	he04h04.x1 NCJ_CGAP_Kid12 Homo sapiens cDNA clone IMAGE:2872759 3'
10879	23559	36806	7.34	0.0E+00	C05089.1	EST_HUMAN	Homo sapiens signaling lymphocytic activation molecule (SLAM) gene, exon 2
10886	23568	36814	2.31	0.0E+00	AA746375.1	EST_HUMAN	C05089 Human heart cDNA (YNakamura) Homo sapiens cDNA clone 3NHC4817
10895	23575	36825	2.31	0.0E+00	AA746375.1	EST_HUMAN	ca56h01.1 NCJ_CGAP_GCB1 Homo sapiens cDNA clone IMAGE:1309009 5'
10895	23575	36826	3.74	0.0E+00	M78448.1	EST_HUMAN	ca56h01.1 NCJ_CGAP_GCB1 Homo sapiens cDNA clone IMAGE:1309009 5'
10895	23575	36826	3.74	0.0E+00	M78448.1	EST_HUMAN	EST00596 Fetal brain, Stratagene (cat#936206) Homo sapiens cDNA clone HFBCC26
10898	23578	36827	6.82	0.0E+00	AL157608.1	EST_HUMAN	EST00596 Fetal brain, Stratagene (cat#936206) Homo sapiens cDNA clone HFBCC26
10910	23590	36836	5.81	0.0E+00	AU116988.1	EST_HUMAN	DKFZp761J2116 .1 761 (synonym: hamy2) Homo sapiens cDNA clone DKFZp761J2116 5'
10924	23604	36853	1.64	0.0E+00	AV693653.1	EST_HUMAN	AU116988 HEMBA1 Homo sapiens cDNA clone HEMBA1000424 5'
10932	23612	36862	2.09	0.0E+00	BF366553.1	EST_HUMAN	AV693656 GK Homo sapiens cDNA clone GKGCNC03 5'
10955	18399	31311	2.73	0.0E+00	AB035268.1	NT	IL3-NT0104-200500-143-A07 NT0104 Homo sapiens cDNA
10955	18399	31312	2.73	0.0E+00	AB035268.1	NT	Homo sapiens mRNA for neurexin II, complete cds
10960	23636	36887	2.64	0.0E+00	BE182360.1	EST_HUMAN	Homo sapiens mRNA for neurexin II, complete cds
10960	23636	36888	2.84	0.0E+00	BE182360.1	EST_HUMAN	PMO-HT0645-060500-002-E05 HT0645 Homo sapiens cDNA
10961	23637	36888	1.4	0.0E+00	AV701152.1	EST_HUMAN	PMO-HT0645-060500-002-E05 HT0645 Homo sapiens cDNA
10980	23655	36908	4.07	0.0E+00	BE896423.1	EST_HUMAN	AV701152 ADA Homo sapiens cDNA clone ADAAD06 5'
10980	23655	36908	4.07	0.0E+00	BE896423.1	EST_HUMAN	60143902F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3924142 5'

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E- Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
10989	23663	36919	1.85	0.0E+00	AW500307.1	EST_HUMAN	U1-HF-BNO-ekg-4-02-0-U1.r1 NIH_MGC_50 Homo sapiens cDNA clone IMAGE:3077019 5'
10989	23663	36920	1.85	0.0E+00	AW500307.1	EST_HUMAN	U1-HF-BNO-ekg-4-02-0-U1.r1 NIH_MGC_50 Homo sapiens cDNA clone IMAGE:3077019 5'
10992	23668	36923	2.39	0.0E+00	BE018293.1	EST_HUMAN	bb78c04.y1 NIH_MGC_10 Homo sapiens cDNA clone IMAGE:3048486 5' similar to gb:Y00345_cds1 POLYADENYLATE-BINDING PROTEIN (HUMAN); gb:X65563 M.musculus mRNA for poly(A) binding protein (MOUSE);
11016	23688	36949	1.77	0.0E+00	BF528907.1	EST_HUMAN	602043377F1 NCI CGAP_Brn67 Homo sapiens cDNA clone IMAGE:4181083 5'
11016	23688	36950	1.77	0.0E+00	BF528907.1	EST_HUMAN	602043377F1 NCI CGAP_Brn67 Homo sapiens cDNA clone IMAGE:4181083 5'
11016	23688	36951	1.77	0.0E+00	BF528907.1	EST_HUMAN	602043377F1 NCI CGAP_Brn67 Homo sapiens cDNA clone IMAGE:4181083 5'
11028	23688	36964	1.27	0.0E+00	AW387766.1	EST_HUMAN	MR4-ST0118-041099-010-A12 ST0118 Homo sapiens cDNA
11028	23688	36965	1.27	0.0E+00	AW387766.1	EST_HUMAN	MR4-ST0118-041099-010-A12 ST0118 Homo sapiens cDNA
11034	23705	36973	1.53	0.0E+00	4758281	NT	Homo sapiens EphA7 (EPHA7) mRNA
11035	23706	36974	8.73	0.0E+00	BE937953.1	EST_HUMAN	601440446F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3925403 5'
11037	23708	36977	1.89	0.0E+00	A1459545.1	EST_HUMAN	aa86g11.x1 Schiller meningioma Homo sapiens cDNA clone IMAGE:1952804 3'
11037	23708	36978	1.89	0.0E+00	A1459545.1	EST_HUMAN	aa86g11.x1 Schiller meningioma Homo sapiens cDNA clone IMAGE:1952804 3'
11051	23721	36992	2.76	0.0E+00	AL042278.1	EST_HUMAN	DKFZp434L0120_r1 434 (synonym: hies3) Homo sapiens cDNA clone DKFZp434L0120 5'
11083	23763	37028	1.61	0.0E+00	10880982	NT	Homo sapiens gephyrin (GPH), mRNA
11085	23765	37031	3.98	0.0E+00	4758827	NT	Homo sapiens neurodin III (NRXN3) mRNA
11086	23766	37032	2.67	0.0E+00	BE206581.1	EST_HUMAN	601870902F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:4101433 5'
11091	23761	37036	12.22	0.0E+00	AW207734.1	EST_HUMAN	U1-H-BI2-age-h-01-0-U1.s1 NCI CGAP_Sub4 Homo sapiens cDNA clone IMAGE:2724312 3'
11096	23766	37040	4.23	0.0E+00	AB018280.1	NT	Homo sapiens mRNA for KIAA0717 protein, partial cds
11096	23766	37041	4.23	0.0E+00	AB018280.1	NT	Homo sapiens mRNA for KIAA0717 protein, partial cds
11098	23768	37043	2.69	0.0E+00	BE206846.1	EST_HUMAN	55KDA-ASSOCIATED PROTEIN. ;
11098	23768	37044	2.69	0.0E+00	BE206846.1	EST_HUMAN	55KDA-ASSOCIATED PROTEIN. ;
11110	23780	37055	1.9	0.0E+00	11526409	NT	Homo sapiens KIAA0426 gene product (KIAA0426), mRNA
11124	23783	37069	1.52	0.0E+00	11024711	NT	Homo sapiens myosin, heavy polypeptide 4, skeletal muscle (MYH4), mRNA
11127	20052	33133	1.5	0.0E+00	L32832.1	NT	Homo sapiens zinc finger homeodomain protein (ATBF1-A) mRNA, complete cds
11131	23799	37074	3.84	0.0E+00	BE148076.1	EST_HUMAN	RC3-HT0230-040500-110-h04 HT0230 Homo sapiens cDNA
11131	23799	37075	3.84	0.0E+00	BE148076.1	EST_HUMAN	RC3-HT0230-040500-110-h04 HT0230 Homo sapiens cDNA
11154	23821	37101	1.96	0.0E+00	AW673469.1	EST_HUMAN	ba54d08.y3 NIH_MGC_10 Homo sapiens cDNA clone IMAGE:2900387 5' similar to TR:O60275 O60275 KIAA0522 PROTEIN ;
11154	23821	37102	1.96	0.0E+00	AW673469.1	EST_HUMAN	ba54d08.y3 NIH_MGC_10 Homo sapiens cDNA clone IMAGE:2900387 5' similar to TR:O60275 O60275 KIAA0522 PROTEIN ;

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
11176	23843	37128	6.21	0.0E+00	BF507876.1	EST_HUMAN	UI-H-B14-aak-b-10-0-UI.s1 NCI CGAP_Sub8 Homo sapiens cDNA clone IMAGE:3085026 3'
11176	23843	37129	6.21	0.0E+00	BF507876.1	EST_HUMAN	UI-H-B14-aak-b-10-0-UI.s1 NCI CGAP_Sub8 Homo sapiens cDNA clone IMAGE:3085026 3'
11185	23850	37136	1.57	0.0E+00	AU135170.1	EST_HUMAN	AU135170 PLACE1 Homo sapiens cDNA clone PLACE1001381 5'
11189	23854	37140	1.82	0.0E+00	BF576138.1	EST_HUMAN	602132459F1 NIH_MGC_81 Homo sapiens cDNA clone IMAGE:4271680 5'
11189	23854	37141	1.82	0.0E+00	BF576138.1	EST_HUMAN	602132459F1 NIH_MGC_81 Homo sapiens cDNA clone IMAGE:4271680 5'
11190	23855	37142	1.67	0.0E+00	BF086811.1	EST_HUMAN	RC3-GN0089-190900-011-c06 GN0089 Homo sapiens cDNA
11192	23857	37143	5.5	0.0E+00	BE876401.1	EST_HUMAN	601486828F1 NIH_MGC_69 Homo sapiens cDNA clone IMAGE:3889207 5'
11192	23857	37144	5.5	0.0E+00	BE876401.1	EST_HUMAN	601486828F1 NIH_MGC_69 Homo sapiens cDNA clone IMAGE:3889207 5'
11199	23864	37150	1.94	0.0E+00	D87682.1	NT	Human mRNA for KIAA0241 gene, partial cds
11204	23868		5.95	0.0E+00	BF240536.1	EST_HUMAN	601876630F1 NIH_MGC_55 Homo sapiens cDNA clone IMAGE:4096710 5'
11218	23881	37166	2.04	0.0E+00	AB037737.1	NT	Homo sapiens mRNA for KIAA1316 protein, partial cds
11218	23881	37167	2.04	0.0E+00	AB037737.1	NT	Homo sapiens mRNA for KIAA1316 protein, partial cds
11222	23885	37170	4.17	0.0E+00	11430868	NT	Homo sapiens retinoblastoma-like 2 (p130) (RBL2), mRNA
11222	23885	37171	4.17	0.0E+00	11430868	NT	Homo sapiens retinoblastoma-like 2 (p130) (RBL2), mRNA
11230	23893	37179	1.8	0.0E+00	AA772837.1	EST_HUMAN	ae74g04.s1 Strabagene schizo brain S11 Homo sapiens cDNA clone IMAGE:968942 3'
11241	23903	37192	1.62	0.0E+00	AF223391.1	NT	Homo sapiens calcium channel alpha1E subunit (CACNA1E) gene, exons 7-49, and partial cds, alternatively spliced
11241	23903	37193	1.62	0.0E+00	AF223391.1	NT	Homo sapiens calcium channel alpha1E subunit (CACNA1E) gene, exons 7-49, and partial cds, alternatively spliced
11244	23906	37198	6.16	0.0E+00	4503544	NT	Homo sapiens eukaryotic translation initiation factor 5A (EIF5A) mRNA
11251	23913	37205	1.36	0.0E+00	BF576267.1	EST_HUMAN	602134132F1 NIH_MGC_81 Homo sapiens cDNA clone IMAGE:4289502 5'
11254	23916	37209	5.84	0.0E+00	AW328173.1	EST_HUMAN	dr04g05.x1 NIH_MGC_3 Homo sapiens cDNA clone IMAGE:284777 5'
11258	23920		71.88	0.0E+00	M65083.1	NT	Human gamma actin-like pseudogene, complete cds
11264	23926	37216	2.93	0.0E+00	BF306996.1	EST_HUMAN	601889823F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:4123948 5'
11264	23926	37217	2.93	0.0E+00	BF306996.1	EST_HUMAN	601889823F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:4123948 5'
11271	23932	37225	105.67	0.0E+00	BF362482.1	EST_HUMAN	QV2-NN0054-230800-333-c04 NN0054 Homo sapiens cDNA
11291	23952	37249	2.34	0.0E+00	U36264.1	NT	Human beta-prime-adaptin (BAM22) gene, exon 16
11291	23952	37250	2.34	0.0E+00	U36264.1	NT	Human beta-prime-adaptin (BAM22) gene, exon 16
11296	23956		3.03	0.0E+00	BE897051.1	EST_HUMAN	601439605F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3924577 5'
11296	23956		1.73	0.0E+00	4503786	NT	Homo sapiens tyrosine-related kinase (FRK) mRNA
11298	23957		3.55	0.0E+00	8923698	NT	Homo sapiens golgin-like protein (GLP), mRNA
11310	23969	37271	2.69	0.0E+00	BF207662.1	EST_HUMAN	601861947F1 NIH_MGC_53 Homo sapiens cDNA clone IMAGE:4081715 5'
11313	23972		2.03	0.0E+00	BE257744.1	EST_HUMAN	601116705F1 NIH_MGC_16 Homo sapiens cDNA clone IMAGE:3357384 5'
11314	23973		2.03	0.0E+00	BE257744.1	EST_HUMAN	601116705F1 NIH_MGC_16 Homo sapiens cDNA clone IMAGE:3357384 5'

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Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
11327	24018	37321	4.02	0.0E+00	BE206846.1	EST_HUMAN	ba04d07.y1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:2823373 5' similar to TR:076022 076022 E1B-55KDA-ASSOCIATED PROTEIN.;
11327	24018	37322	4.02	0.0E+00	BE206846.1	EST_HUMAN	ba04d07.y1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:2823373 5' similar to TR:076022 076022 E1B-55KDA-ASSOCIATED PROTEIN.;
11328	24020	37324	3.88	0.0E+00	AW753028.1	EST_HUMAN	QV0-GT0225-101298-071-r06 CT0225 Homo sapiens cDNA
11334	24025		3.06	0.0E+00	AA558707.1	EST_HUMAN	ti42e08.s1 NCI_CGAP_P44 Homo sapiens cDNA clone IMAGE:1043342 similar to gb:M85178 ALPHA-ACTININ 1, CYTOSKELETAL ISOFORM (HUMAN);
11335	18000	30623	3.84	0.0E+00	AI934954.1	EST_HUMAN	wp06g08.x1 NCI_CGAP_K12 Homo sapiens cDNA clone IMAGE:2464094 3'
11336	24026	37330	7.45	0.0E+00	AW327895.1	EST_HUMAN	dr02b08.x1 NIH_MGC_3 Homo sapiens cDNA clone IMAGE:2846919 5'
11335	25134	37348	1.89	0.0E+00	AW282776.1	EST_HUMAN	UHH-BW0-aj-d-07-0-U1.s1 NCI_CGAP_Sub6 Homo sapiens cDNA clone IMAGE:2729509 3'
11362	23173	39401	2.2	0.0E+00	4758827	NT	Homo sapiens neurexin III (NRXN3) mRNA
11368	23975	37276	1.73	0.0E+00	BE254058.1	EST_HUMAN	601113903F1 NIH_MGC_18 Homo sapiens cDNA clone IMAGE:3354600 5'
11371	23978	37278	1.74	0.0E+00	BE965909.2	EST_HUMAN	601659088R1 NIH_MGC_70 Homo sapiens cDNA clone IMAGE:3895916 3'
11371	23978	37279	1.74	0.0E+00	BE965909.2	EST_HUMAN	601659088R1 NIH_MGC_70 Homo sapiens cDNA clone IMAGE:3895916 3'
11372	23979	37280	4.52	0.0E+00	BE185656.1	EST_HUMAN	IL5-HT0731-020500-077-r05 HT0731 Homo sapiens cDNA
11373	23980		1.29	0.0E+00	BF513990.1	EST_HUMAN	U1-H-BW1-remv-a-05-0-U1.s1 NCI_CGAP_Sub7 Homo sapiens cDNA clone IMAGE:3074121 3'
11387	23993	37294	7.81	0.0E+00	AL046540.1	EST_HUMAN	DKFZp434G178.t1 434 (synonym: hles3) Homo sapiens cDNA clone DKFZp434G178 5'
11387	23993	37295	7.81	0.0E+00	AL046540.1	EST_HUMAN	DKFZp434G178.t1 434 (synonym: hles3) Homo sapiens cDNA clone DKFZp434G178 5'
11397	24003	37306	5.89	0.0E+00	AI923116.1	EST_HUMAN	wn83g03.x1 NCI_CGAP_U11 Homo sapiens cDNA clone IMAGE:2452488 3' similar to gb:S37431 LAMININ RECEPTOR (HUMAN);
11401	24050	37353	3.42	0.0E+00	AA760913.1	EST_HUMAN	nz11c07.s1 NCI_CGAP_GCB1 Homo sapiens cDNA clone IMAGE:1287488 3' similar to TR:Q13686
11401	24050	37354	3.42	0.0E+00	AA760913.1	EST_HUMAN	nz11c07.s1 NCI_CGAP_GCB1 Homo sapiens cDNA clone IMAGE:1287488 3' similar to TR:Q13686
11406	24055	37360	1.94	0.0E+00	BE910546.1	EST_HUMAN	Q13686 ALKB HOMOLOG PROTEIN.;
11416	23183	36413	7.9	0.0E+00	BE676347.1	EST_HUMAN	601501090F1 NIH_MGC_70 Homo sapiens cDNA clone IMAGE:3902928 5'
11419	23186	36416	1.79	0.0E+00	BE615686.1	EST_HUMAN	7127112.x1 NCI_CGAP_CLL1 Homo sapiens cDNA clone IMAGE:3902928 5'
11419	23186	36417	1.79	0.0E+00	BE615686.1	EST_HUMAN	CHECKPOINT SUPPRESSOR 1.;
11426	23183	36424	1.81	0.0E+00	AV757420.1	EST_HUMAN	601279335F1 NIH_MGC_39 Homo sapiens cDNA clone IMAGE:3611144 5'
11457	24061	37367	1.52	0.0E+00	Y18890.1	NT	601279335F1 NIH_MGC_39 Homo sapiens cDNA clone IMAGE:3611144 5'
11461	24064	37370	10.31	0.0E+00	L39891.1	NT	Human endogenous retrovirus type K (HERV-K), gag, pol and env genes
11461	24064	37371	10.31	0.0E+00	L39891.1	NT	Homo sapiens polycystic kidney disease-associated protein (PKD1) gene, complete cds
11476	24077	37387	4.89	0.0E+00	AU138211.1	EST_HUMAN	Homo sapiens polycystic kidney disease-associated protein (PKD1) gene, complete cds

Table 4

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
11491	24092	37404	1.92	0.0E+00	BE622317.1	EST_HUMAN	601441096F1 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:3916270 5'
11518	24118	37428	1.42	0.0E+00	AI839634.1	EST_HUMAN	fm94c10.x5 NCI CGAP_Bm25 Homo sapiens cDNA clone IMAGE:2165778 3'
11529	24129	37434	13.79	0.0E+00	BE748899.1	EST_HUMAN	601572186T1 NIH_MGC_55 Homo sapiens cDNA clone IMAGE:3839012 3'
11529	24129	37435	13.79	0.0E+00	BE748899.1	EST_HUMAN	601572186T1 NIH_MGC_55 Homo sapiens cDNA clone IMAGE:3839012 3'
11539	24139	37447	1.81	0.0E+00	AU141882.1	EST_HUMAN	AU141882 THYRO1 Homo sapiens cDNA clone THYRO1001398 5'
11539	24139	37448	1.81	0.0E+00	AU141882.1	EST_HUMAN	AU141882 THYRO1 Homo sapiens cDNA clone THYRO1001398 5'
11542	24142	37451	2.08	0.0E+00	AW006022.1	EST_HUMAN	wz91h01.x1 NCI CGAP_Bm25 Homo sapiens cDNA clone IMAGE:2566225 3' similar to WP:F53H10.2
11546	25135	37455	3.49	0.0E+00	BF002333.1	EST_HUMAN	CE11040 ZINC FINGER, C2H2 TYPE 1
11571	24170	37485	2.88	0.0E+00	AW387776.1	EST_HUMAN	7n22b10.x1 NCI CGAP_Co16 Homo sapiens cDNA clone IMAGE:3316699 3' similar to TR:Q13458 Q13458
11571	24170	37486	2.88	0.0E+00	AW387776.1	EST_HUMAN	TRIO1
11582	24181	37521	2.41	0.0E+00	AW863777.1	EST_HUMAN	MR4-ST0118-261098-012-b03 ST0118 Homo sapiens cDNA
11601	24200	37522	4.76	0.0E+00	11435244	NT	MR4-ST0118-261098-012-b03 ST0118 Homo sapiens cDNA
11601	24200	37522	4.76	0.0E+00	11435244	NT	MR3-SN0010-310300-107-b03 SN0010 Homo sapiens cDNA
11608	24206	37529	5.87	0.0E+00	U36253.1	NT	Homo sapiens KIAA0247 gene product (KIAA0247), mRNA
11612	24210	37533	2.29	0.0E+00	BE379254.1	EST_HUMAN	Homo sapiens KIAA0247 gene product (KIAA0247), mRNA
11612	24210	37534	2.29	0.0E+00	BE379254.1	EST_HUMAN	Human beta-prime-adaptin (BAM22) gene, exon 5
11632	24228	37553	2.22	0.0E+00	BE794758.1	EST_HUMAN	601237691F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3609623 5'
11634	24231	37554	45.09	0.0E+00	BE879633.1	EST_HUMAN	601237691F1 NIH_MGC_44 Homo sapiens cDNA clone IMAGE:3609623 5'
11640	24237	37560	1.62	0.0E+00	4758827	NT	601590568F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3944708 5'
11640	24237	37561	1.62	0.0E+00	4758827	NT	601491821F1 NIH_MGC_69 Homo sapiens cDNA clone IMAGE:3884220 5'
11644	24241	37565	1.65	0.0E+00	AF055454.1	NT	Homo sapiens neurexin III (NRXN3) mRNA
11646	24243	37572	1.56	0.0E+00	AL163204.2	NT	Homo sapiens neurexin III (NRXN3) mRNA
11653	24250	37572	14.06	0.0E+00	BE409993.1	EST_HUMAN	Homo sapiens glutathione transferase zeta 1 (GSTZ1) gene, exons 6 and 7
11654	24251	37573	1.46	0.0E+00	BE148650.1	EST_HUMAN	Homo sapiens chromosome 21 segment HS21C004
11655	24252	37574	2.69	0.0E+00	AF223391.1	NT	601299403F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3629544 5'
11655	24252	37575	2.69	0.0E+00	AF223391.1	NT	MR0-HT0241-150500-011-02 HT0241 Homo sapiens cDNA
11657	18187	30878	1.29	0.0E+00	D26535.1	NT	Homo sapiens calcium channel alpha1E subunit (CACNA1E) gene, exons 7-49, and partial cds, alternatively spliced
11657	18187	30878	1.29	0.0E+00	D26535.1	NT	Homo sapiens calcium channel alpha1E subunit (CACNA1E) gene, exons 7-49, and partial cds, alternatively spliced
11658	24254	37576	5.6	0.0E+00	BF681641.1	EST_HUMAN	Human gene for dihydropyrimidine succinyltransferase, complete cds (exon 1-15)
11658	24254	37576	5.6	0.0E+00	BF681641.1	EST_HUMAN	Human gene for dihydropyrimidine succinyltransferase, complete cds (exon 1-15)
11658	24254	37577	5.6	0.0E+00	BF681641.1	EST_HUMAN	602155722F1 NIH_MGC_83 Homo sapiens cDNA clone IMAGE:4298725 5'
11658	24254	37577	5.6	0.0E+00	BF681641.1	EST_HUMAN	602155722F1 NIH_MGC_83 Homo sapiens cDNA clone IMAGE:4298725 5'

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Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
11662	24258		1.93	0.0E+00	6006002	NT	Homo sapiens glutamate receptor, ionotropic, N-methyl D-aspartate 2A (GRIN2A) mRNA
11664	17906	30593	1.5	0.0E+00	AF272663.1	NT	Homo sapiens gephyrin mRNA, complete cds
11667	24262	37586	1.71	0.0E+00	AU132940.1	EST_HUMAN	AU132940 NT2RP4 Homo sapiens cDNA clone NT2RP4000929 5'
11670	24265	37588	1.35	0.0E+00	BE903372.1	EST_HUMAN	601676357F1 NIH_MGC_21 Homo sapiens cDNA clone IMAGE:3958935 5'
11687	24282	37604	2.5	0.0E+00	X51755.1	NT	Human lambda-immunoglobulin constant region complex (germline)
11687	24282	37605	2.5	0.0E+00	X51755.1	NT	Human lambda-immunoglobulin constant region complex (germline)
11728	25136		15.74	0.0E+00	BF09120.1	EST_HUMAN	601890534F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:4131416 5'
11737	24330	37654	11.96	0.0E+00	BE29175.1	EST_HUMAN	601177407F1 NIH_MGC_17 Homo sapiens cDNA clone IMAGE:3353268 5'
11751	24342	37671	1.3	0.0E+00	BE744311.1	EST_HUMAN	601576525F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3837222 5'
11751	24342	37672	1.3	0.0E+00	BE744311.1	EST_HUMAN	601576525F1 NIH_MGC_9 Homo sapiens cDNA clone IMAGE:3837222 5'
11757	24348	37678	1.43	0.0E+00	BE257612.1	EST_HUMAN	601113009F1 NIH_MGC_16 Homo sapiens cDNA clone IMAGE:3353378 5'
11757	24348	37679	1.43	0.0E+00	BE257612.1	EST_HUMAN	601113009F1 NIH_MGC_16 Homo sapiens cDNA clone IMAGE:3353378 5'
11765	24375	37705	1.89	0.0E+00	BE257698.1	EST_HUMAN	601114240F1 NIH_MGC_16 Homo sapiens cDNA clone IMAGE:3353378 5'
11780	24380	37710	1.68	0.0E+00	AW749184.1	EST_HUMAN	PM1-BT0348-151289-001-c11 BT0348 Homo sapiens cDNA
11790	24380	37711	1.68	0.0E+00	AW749184.1	EST_HUMAN	PM1-BT0348-151289-001-c11 BT0348 Homo sapiens cDNA
11792	24382	37713	2.23	0.0E+00	AW367811.1	EST_HUMAN	MRO-HT0166-271199-005-g03 HT0166 Homo sapiens cDNA
11792	24382	37714	2.23	0.0E+00	AW367811.1	EST_HUMAN	MRO-HT0166-271199-005-g03 HT0166 Homo sapiens cDNA
11797	24387	37720	2.46	0.0E+00	AU117974.1	EST_HUMAN	AU117974 HEMBA1 Homo sapiens cDNA clone HEMBA1002812 5'
11797	24387	37721	2.46	0.0E+00	AU117974.1	EST_HUMAN	AU117974 HEMBA1 Homo sapiens cDNA clone HEMBA1002812 5'
11808	14946		1.31	0.0E+00	U36264.1	NT	Human beta-prime-adaptin (BAM22) gene, exon 16
11821	18891	31859	2.45	0.0E+00	U07223.1	NT	Human beta2-chimaerin mRNA, complete cds
11822	24407	37741	5.54	0.0E+00	Z31706.1	NT	H. sapiens GLAST1 gene for glial glutamate transporter, exon6
11835	24419	37760	2.26	0.0E+00	AI656185.1	EST_HUMAN	t3802.x1 NCL CGAP_GC6 Homo sapiens cDNA clone IMAGE:2243067 3' similar to SW:CG2G_HUMAN
11837	24421	37762	2.31	0.0E+00	AU132394.1	EST_HUMAN	P51959 G2MITOTIC-SPECIFIC CYCLIN G1.
11879	25399	30600	2.27	0.0E+00	BE312542.1	EST_HUMAN	AU132394 NT2RP3 Homo sapiens cDNA clone NT2RP3004339 5'
11893	25257		3.89	0.0E+00	AI180993.1	EST_HUMAN	601150023F1 NIH_MGC_19 Homo sapiens cDNA clone IMAGE:3503020 5'
11902	24468		1.6	0.0E+00	AB011398.1	NT	gel17b12.x1 Soares fetal lung Nhl-19W Homo sapiens cDNA clone IMAGE:1736231 3'
11921	24482		4.9	0.0E+00	AL163246.2	NT	Homo sapiens gene for AF-6, complete cds
11929	24488		4.1	0.0E+00		NT	Homo sapiens chromosome 21 segment HS21C046
11947	24501		3.05	0.0E+00	11417862	NT	Homo sapiens calicheurin binding protein 1 (KIAA0330), mRNA
					5602973	NT	Homo sapiens antioxidant protein 1 (AOP1), nuclear gene encoding mitochondrial protein, mRNA
11982	25218	30816	2.59	0.0E+00	AF240786.1	NT	Homo sapiens glutathione S-transferase theta 2 (GSTT2) and glutathione S-transferase theta 1 (GSTT1) genes, complete cds
11993	25226		5.39	0.0E+00	AL041931.1	EST_HUMAN	DKFZp434K0819_j1 434 (synonym: htes3) Homo sapiens cDNA clone DKFZp434K0819 5'

Table 4

Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
12015	25368		3.12	0.0E+00	11418318	NT	Homo sapiens G-2 and S-phase expressed 1 (GTSE1), mRNA
12023	24551		3.91	0.0E+00	AL046544.1	EST_HUMAN	DKFZp43G218.1 434 (synonym: htes3) Homo sapiens cDNA clone DKFZp43G218.5
12037	25261		1.88	0.0E+00	AI903497.1	EST_HUMAN	IL-BT030-271098-001 BT030 Homo sapiens cDNA
12076	25390		1.52	0.0E+00	N54484.1	EST_HUMAN	yw4e08.s1 Soares fetal liver spleen, 1NFLS Homo sapiens cDNA clone IMAGE:245222 3' similar to
12089	24594		5.88	0.0E+00	AF106658.1	NT	SW_POL_BAEVM P10272 POL POLYPROTEIN ;
12092	13593	26262	3.39	0.0E+00	4507500	NT	Homo sapiens adenyosuccinate lyase gene, complete cds
12092	13593	26263	3.39	0.0E+00	4507500	NT	Homo sapiens T-cell lymphoma invasion and metastasis 1 (TIAM1) mRNA
12100	25264		2.21	0.0E+00	10092587	NT	Homo sapiens T-cell lymphoma invasion and metastasis 1 (TIAM1) mRNA
12129	13318		2.04	0.0E+00	AF003528.1	NT	Homo sapiens nuclear factor of activated T-cells, cytoplasmic, calcineurin-dependent 2 (NFATC2), mRNA
12218	25198	30814	2.63	0.0E+00	AW590082.1	EST_HUMAN	Homo sapiens X-linked anhidrotic ectodermal dysplasia protein gene (EDA), exon 2 and flanking repeat regions
12229	25248		1.34	0.0E+00	BE090210.1	EST_HUMAN	hg31e08.x1 NOI_CGAP_G08 Homo sapiens cDNA clone IMAGE:2847234 3' similar to contains Alu repetitive element; contains element MER22 repetitive element ;
12273	25258		4.43	0.0E+00	AF068757.1	NT	RC8-BT0711-290300-011-D05 BT0711 Homo sapiens cDNA
12308	24732		3.36	0.0E+00	9635487	NT	Homo sapiens somatostatin receptor subtype 3 (SSTR3) gene, 5' flanking region and partial cds
12351	25252		2.41	0.0E+00	AI204914.1	EST_HUMAN	Human endogenous retrovirus, complete genome
12383	24778		1.68	0.0E+00	AI904646.1	EST_HUMAN	an05h04.x1 Stratagene schizo brain S11 Homo sapiens cDNA clone IMAGE:1884759 3'
12405	14718	27436	1.51	0.0E+00	6912457	NT	QV-BT065-020399-103 BT065 Homo sapiens cDNA
12405	14718	27437	1.51	0.0E+00	6912457	NT	Homo sapiens calcineurin binding protein 1 (KIAA0330), mRNA
12423	24799	31039	2.08	0.0E+00	AF036365.1	NT	Homo sapiens calcineurin binding protein 1 (KIAA0330), mRNA
12435	14424	27119	2.76	0.0E+00	H30132.1	EST_HUMAN	Homo sapiens caveolin-3 (CAV3) mRNA, complete cds
12435	14424		2.76	0.0E+00	H30132.1	EST_HUMAN	y659e08.r1 Soares breast 3NdbHst Homo sapiens cDNA clone IMAGE:182248 5' similar to gb:M64099
12446	24816	27120	10.66	0.0E+00	D50659.1	NT	GAMMA-GLUTAMYLTRANSEPTIDASE 5 PRECURSOR (HUMAN);
12448	24818	31020	2.51	0.0E+00	11418189	NT	GAMMA-GLUTAMYLTRANSEPTIDASE 5 PRECURSOR (HUMAN);
12448	24818	31021	2.51	0.0E+00	11418189	NT	Human gamma-cytoplasmic actin (ACTG9P) pseudogene
12464	14817	27549	1.53	0.0E+00	4758489	NT	Homo sapiens thyroid autoantigen 70kD (Ku antigen) (G22P-1), mRNA
12502	24856	26617	1.5	0.0E+00	AW664999.1	EST_HUMAN	Homo sapiens thyroid autoantigen 70kD (Ku antigen) (G22P-1), mRNA
12538	13953	26617	2.09	0.0E+00	8922593	NT	Homo sapiens GTP binding protein 1 (GTPBP1) mRNA
12544	24884		1.88	0.0E+00	11526291	NT	h186a06.x1 Soares_NFL_T_GBC_S1 Homo sapiens cDNA clone IMAGE:2879154 3'
12568	16069	28718	4.24	0.0E+00	4885312	NT	Homo sapiens hypothetical protein FLJ20454 (FLJ20454), mRNA
							Homo sapiens G protein-coupled receptor 24 (GPR24), mRNA

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Table 4
Single Exon Probes Expressed in Brain

Probe SEQ ID NO:	Exon SEQ ID NO:	ORF SEQ ID NO:	Expression Signal	Most Similar (Top) Hit BLAST E Value	Top Hit Accession No.	Top Hit Database Source	Top Hit Descriptor
12576	17805	30592	3.05	0.0E+00	6806918	NT	Homo sapiens low density lipoprotein-related protein 2 (LRP2), mRNA
12682	24905		2.12	0.0E+00	AB029900.1	NT	Homo sapiens CST gene for cerebroside sulfotransferase, exon 1, 2, 3, 4, 5
12622	24927	31009	2.06	0.0E+00	9558724	NT	Homo sapiens cleavage and polyadenylation specific factor 1, 160kD subunit (CPSF1), mRNA
12648	25410		2.66	0.0E+00	AL163246.2	NT	Homo sapiens chromosome 21 segment HS21C046
12654	13390	26021	2.77	0.0E+00	6806918	NT	Homo sapiens low density lipoprotein-related protein 2 (LRP2), mRNA
12729	24989	30972	1.5	0.0E+00	11417862	NT	Homo sapiens calcineurin binding protein 1 (KIAA0330), mRNA
12735	25004		4	0.0E+00	7657020	NT	Homo sapiens DKFZp434P211 protein (DKFZP434P211), mRNA
12780	25042	30967	1.76	0.0E+00	AW025032.1	EST_HUMAN	wu83c07.x1 NCJ CGAP_Kid3 Homo sapiens cDNA clone IMAGE:2527596 3' similar to TR:Q12844 Q12844
12808	13890	26550	1.37	0.0E+00	9966844	NT	BREAKPOINT CLUSTER REGION PROTEIN ; contains TAR1.13 TAR1 repetitive element ;
12818	25251		1.39	0.0E+00	AF083824.1	NT	Homo sapiens chromosome 12 open reading frame 3 (C12ORF3), mRNA
							Homo sapiens dihydropyridine receptor alpha 2 subunit (CACNA2D1) gene, exon 8

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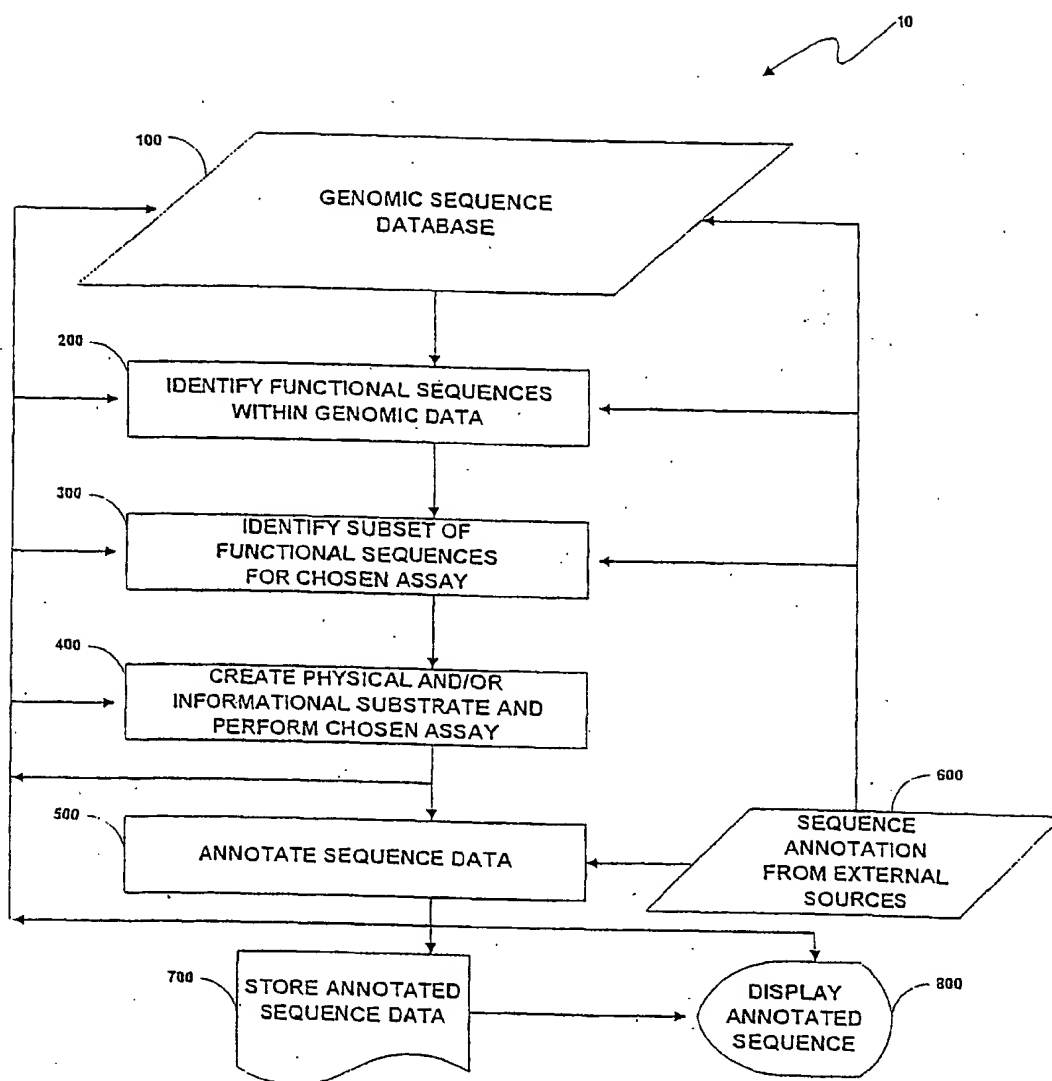


Fig. 1

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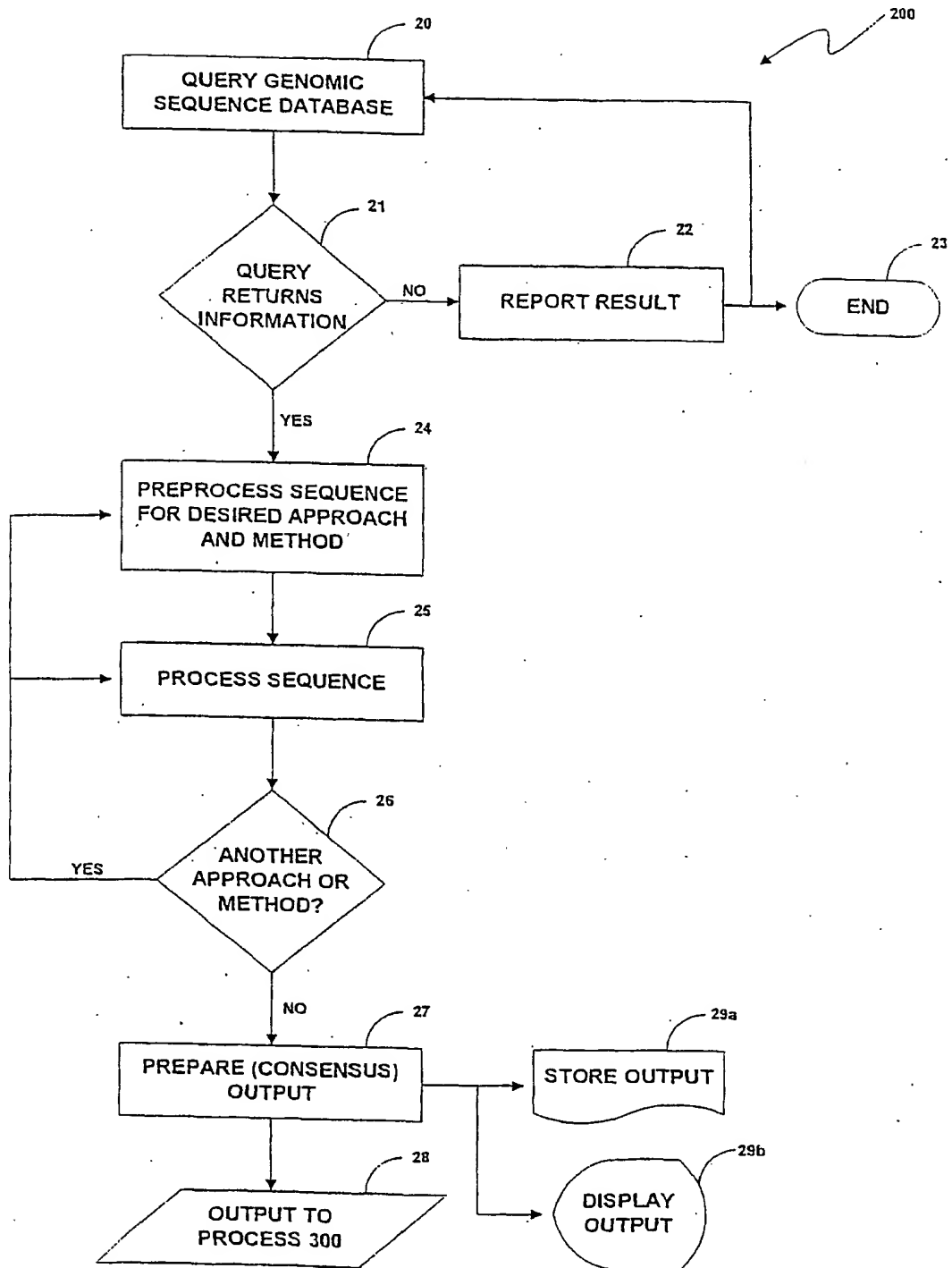


Fig. 2

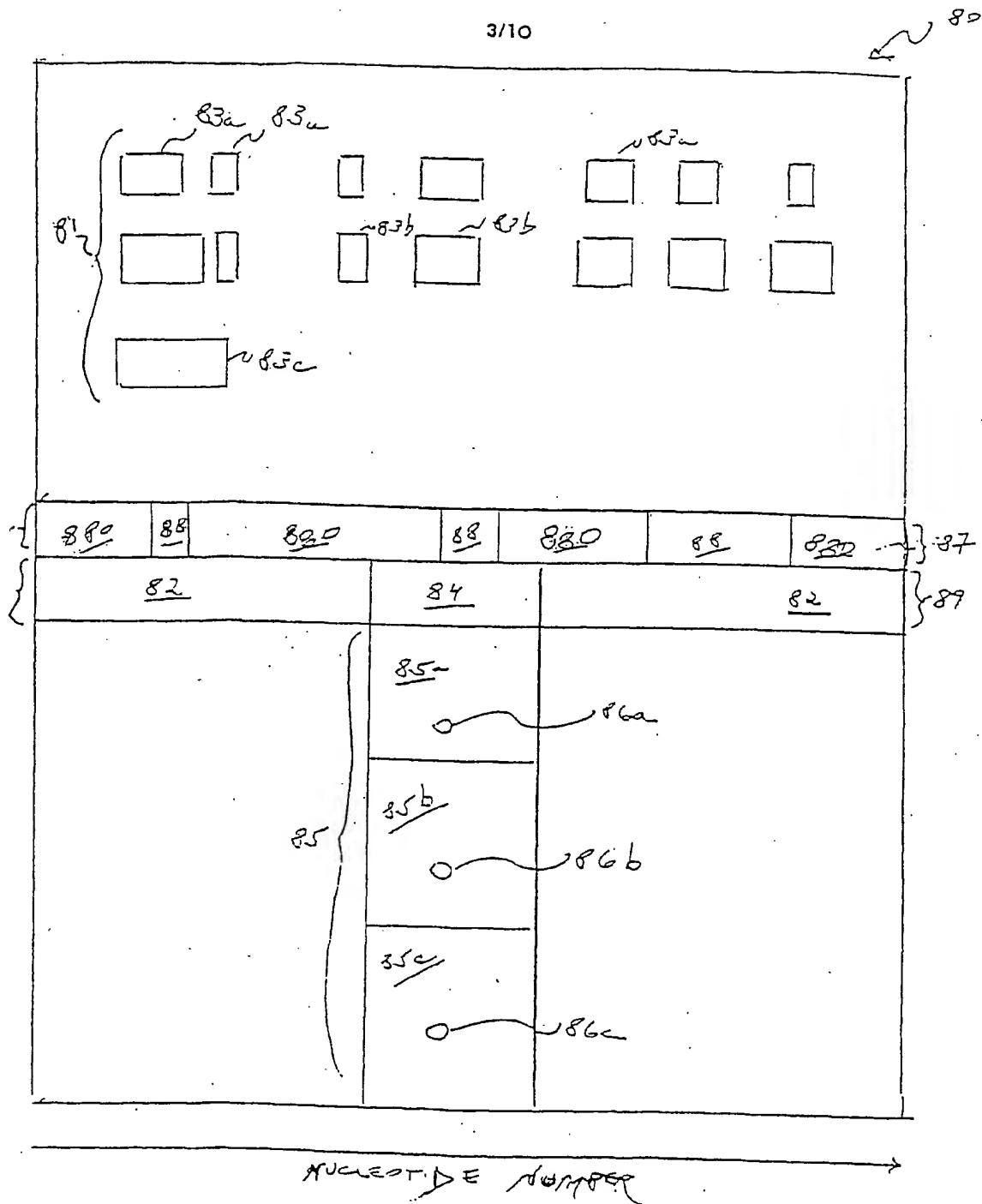


Fig. 3

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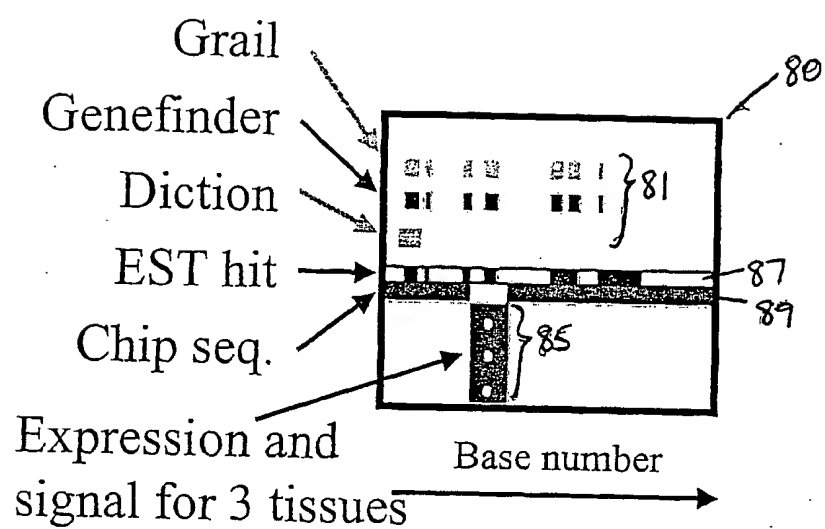


Fig. 4

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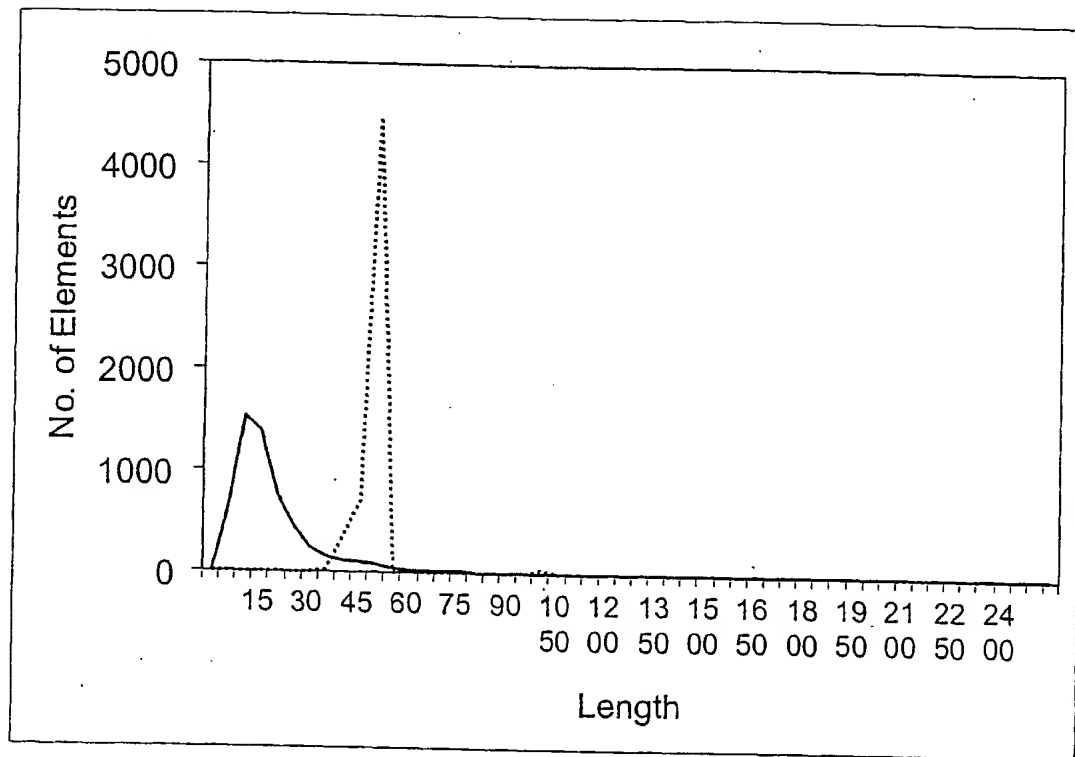


Fig. 5

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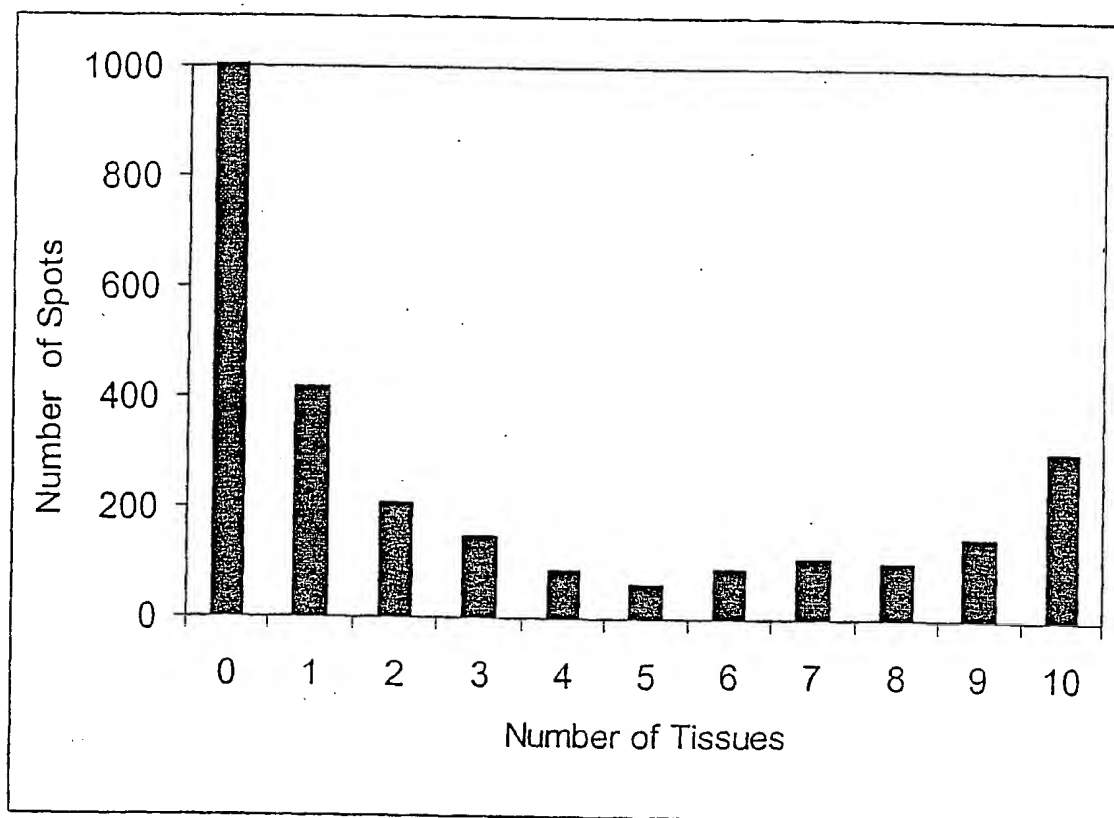


Fig. 6

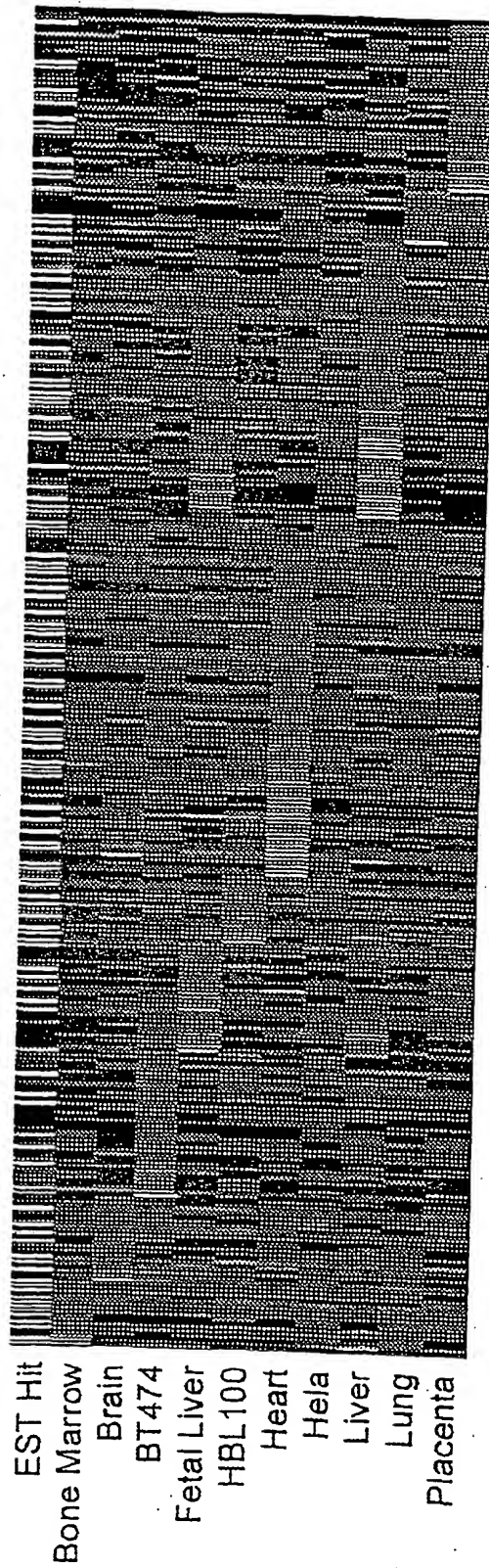


Fig. 7a

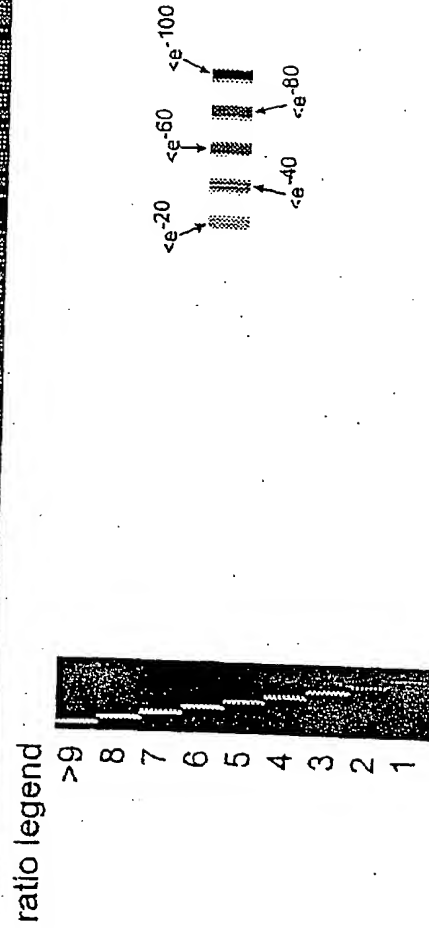


Fig. 7b

Fig. 7c

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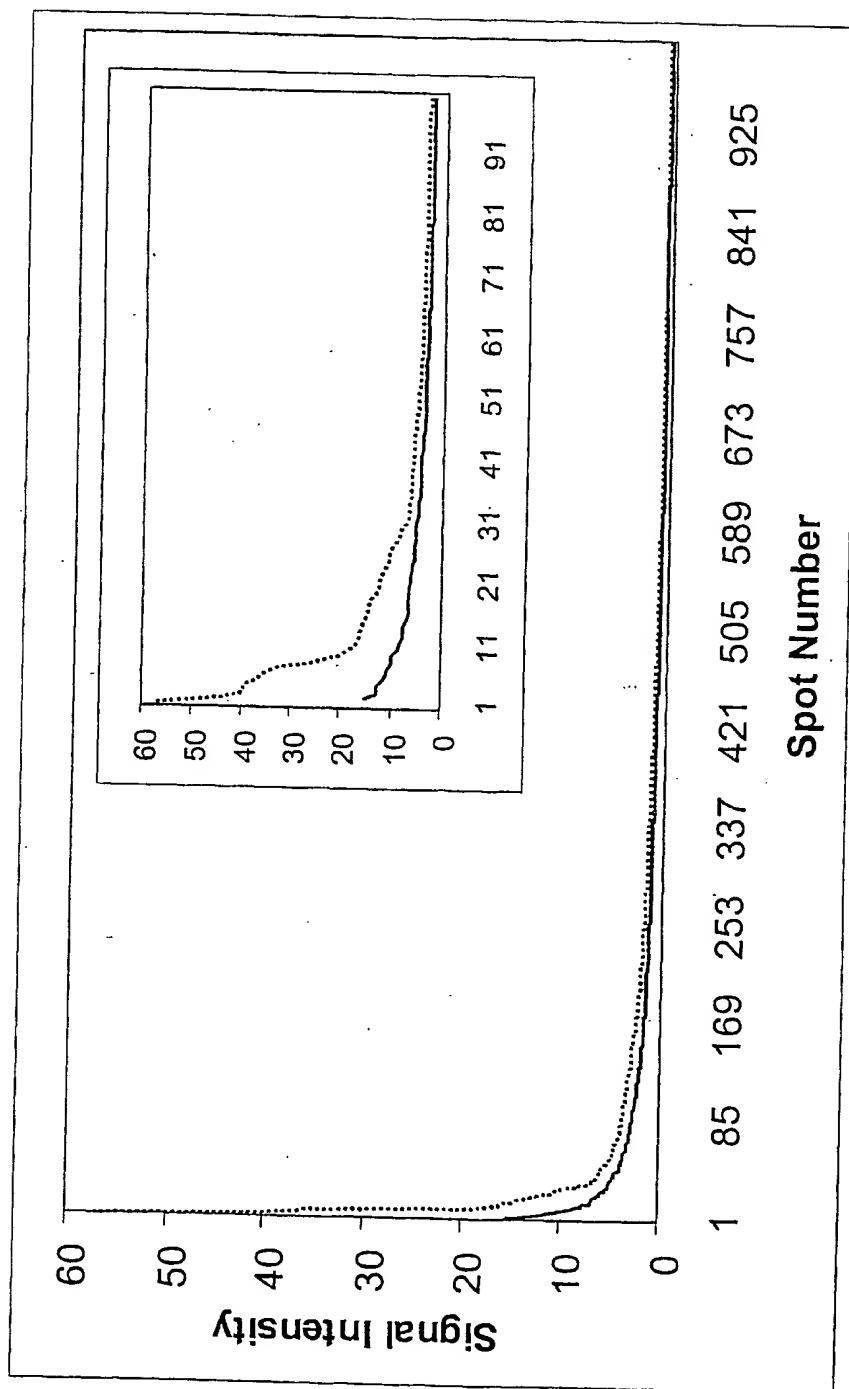


Fig. 8

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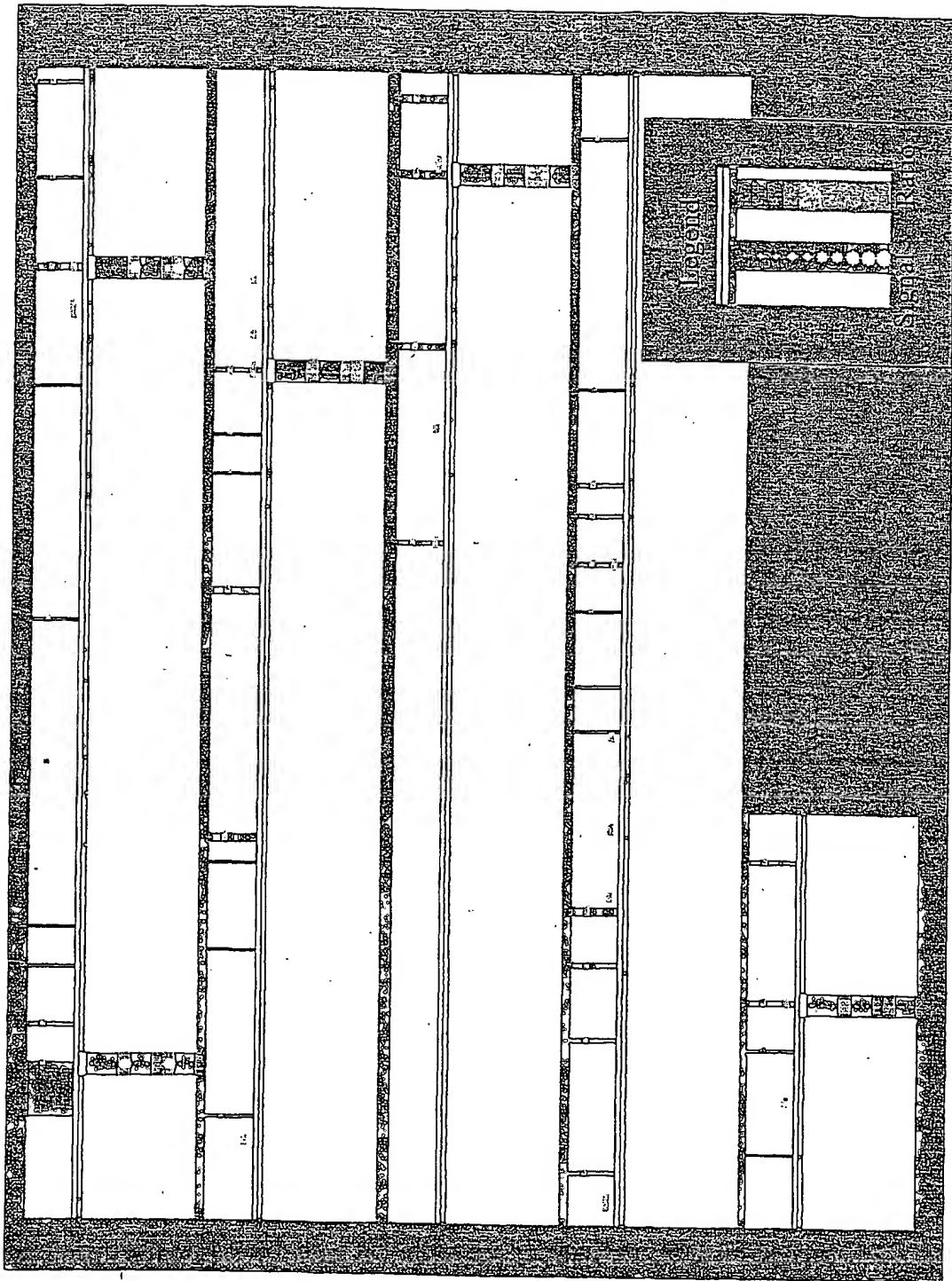


Fig. 9

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Fig. 10

